

=> d his

(FILE 'REGISTRY' ENTERED AT 12:36:41 ON 13 FEB 2003)

DEL HIS Y
E POLYETHYLENE/CN
L1 1 S E3
E POLYPROPYLENE/CN
L2 1 S E3
E POLYVINYLDENE CHLORIDE/CN
E POLYVINYL CHLORIDE/CN
L3 1 S E3
L4 1 S 9002-85-1
E POLYVINYLDENE/CN

FILE 'HCAPLUS' ENTERED AT 12:44:14 ON 13 FEB 2003

FILE 'REGISTRY' ENTERED AT 12:46:16 ON 13 FEB 2003
E VINYLIDENE/CN

L5 1 S 2143-69-3
L6 3 S 2143-69-3/CRN
E POLYETHYLENE TEREPHTHALATE/CN
L7 1 S 25038-59-9
L8 9 S L1-L7

FILE 'HCAPLUS' ENTERED AT 12:49:30 ON 13 FEB 2003

L9 320922 S L8
L10 410859 S POLYAMIDE# OR POLYETHYLENE# OR POLYVINYLDENE OR POLYVINYL CH
L11 525629 S L10 OR L9
L12 166189 S POLYAMIDE# OR POLYCARBONATE#
L13 556088 S L11 OR L12
729 S BENZALKONIUM (L) (HALIDE# OR CHLORIDE# OR FLUORIDE# OR BROMID
L15 35866 S QUATERNARY AMMONIUM (W) (SALT# OR COMPOUND#)
L16 5015 S (PYRIDIUM OR PHOSPHONIUM) (3A) (SALT# OR COMPOUND#)
L17 39980 S L14 OR L15 OR L16
L18 4093 S L17 AND L13
L19 213277 S ANTIBACTERI? OR ANTIMICROB? OR BACTERICID? OR BACTERIOSTAT? O
L20 409 S L18 AND L19
L21 55290 S PACKAG?
L22 7 S L20 AND L21
L23 37 S FILM# AND L20

FILE 'REGISTRY' ENTERED AT 13:03:12 ON 13 FEB 2003

E PYRIDINUM SALT/CN
E PHOSPHONIUM/CN
E PHOSPHONIUM SALT/CN

FILE 'HCAPLUS' ENTERED AT 13:04:34 ON 13 FEB 2003

L24 35 S L23 NOT L22

FILE 'USPATFULL' ENTERED AT 13:05:06 ON 13 FEB 2003

L25 37828 S L8
L26 105987 S (POLYAMIDE# OR POLYETHYLENE# OR POLYPROPYLENE# OR POLYVINYLD
L27 8321 S ((QUATERNARY AMMONIUM OR PHOSPHONIUM OR PYRIDINUM) (3A) (SAL
L28 1134 S L27 (L) L26
L29 25094 S (ANTIBACTERIA? OR ANTIMICROB? OR BIOCID? OR BACTERICID? OR BA
L30 105 S L28 AND L29
L31 770791 S PACKAG? OR FILM#
L32 71 S L30 AND L31
L33 236519 S (PACKAG? OR FILM#)/TI,AB,CLM
L34 18 S L33 AND L32

L35 341 S L25 AND L27
L36 4 S L35 AND L29 AND L33
L37 18 S L36 OR L34

FILE 'USPATFULL, HCAPLUS' ENTERED AT 13:10:20 ON 13 FEB 2003
L38 58 DUP REM L37 L24 L22 (2 DUPLICATES REMOVED)

FILE 'HCAPLUS' ENTERED AT 13:11:54 ON 13 FEB 2003
E SCHROEDER J/AU
L39 271 S E3 OR E6-7
E SCHROEDER JOSEPH/AU
L40 29 S E3 OR E5-6
E SCALES J/AU
L41 2 S E3 OR E5
L42 30 S L41 OR L40
L43 1 S L42 AND L18
L44 1 S L42 AND L19
L45 1 S L42 AND (L21 OR FILM#)
L46 1 S L43-45
L47 6 S L38
L48 34 S L38

=> fil uspatfull hcaplus
FILE 'USPATFULL' ENTERED AT 13:14:37 ON 13 FEB 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'HCAPLUS' ENTERED AT 13:14:37 ON 13 FEB 2003
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COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> d que 138

L1	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	POLYETHYLENE/CN
L2	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	POLYPROPYLENE/CN
L3	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	"POLYVINYL CHLORIDE"/CN
L4	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	9002-85-1
L5	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	2143-69-3
L6	3 SEA FILE=REGISTRY ABB=ON	PLU=ON	2143-69-3/CRN
L7	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	25038-59-9
L8	9 SEA FILE=REGISTRY ABB=ON	PLU=ON	(L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7)
L9	320922 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L8
L10	410859 SEA FILE=HCAPLUS ABB=ON	PLU=ON	POLYAMIDE#/OBI OR POLYETHYLENE #/OBI OR POLYVINYLIDENE/OBI OR POLYVINYL CHLORIDE/OBI OR POLYPROPYLENE/OBI
L11	525629 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L10 OR L9
L12	166189 SEA FILE=HCAPLUS ABB=ON	PLU=ON	POLYAMIDE#/OBI OR POLYCARBONAT E#/OBI
L13	556088 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L11 OR L12
L14	729 SEA FILE=HCAPLUS ABB=ON	PLU=ON	BENZALKONIUM/OBI (L) (HALIDE#/ OBI OR CHLORIDE#/OBI OR FLUORIDE#/OBI OR BROMIDE#/OBI)
L15	35866 SEA FILE=HCAPLUS ABB=ON	PLU=ON	QUATERNARY AMMONIUM/OBI (W) (SALT#/OBI OR COMPOUND#/OBI)
L16	5015 SEA FILE=HCAPLUS ABB=ON	PLU=ON	(PYRIDIUM/OBI OR PHOSPHONIUM/ OBI) (3A) (SALT#/OBI OR COMPOUND#/OBI)
L17	39980 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L14 OR L15 OR L16
L18	4093 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L17 AND L13
L19	213277 SEA FILE=HCAPLUS ABB=ON	PLU=ON	ANTIBACTERI?/OBI OR ANTIMICROB ?/OBI OR BACTERICID?/OBI OR BACTERIOSTAT?/OBI OR ANTIVIRAL?/OBI OR ANTIFUNG?/OBI OR VIRUCID?/OBI OR FUNGICID?/OBI

L20 409 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND L19
 L21 55290 SEA FILE=HCAPLUS ABB=ON PLU=ON PACKAG?/OBI
 L22 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 AND L21
 L23 37 SEA FILE=HCAPLUS ABB=ON PLU=ON FILM#/OBI AND L20
 L24 35 SEA FILE=HCAPLUS ABB=ON PLU=ON L23 NOT L22
 L25 37828 SEA FILE=USPATFULL ABB=ON PLU=ON L8
 L26 105987 SEA FILE=USPATFULL ABB=ON PLU=ON (POLYAMIDE# OR POLYETHYLENE#
 OR POLYPROPYLENE# OR POLYVINYLDENE OR POLYVINYL CHLORIDE# OR
 POLYCARBONATE#)/AB, TI, CLM
 L27 8321 SEA FILE=USPATFULL ABB=ON PLU=ON ((QUATERNARY AMMONIUM OR
 PHOSPHONIUM OR PYRIDINUM) (3A) (SALT# OR COMPOUND#))/TI, AB, CLM
 L28 1134 SEA FILE=USPATFULL ABB=ON PLU=ON L27 (L) L26
 L29 25094 SEA FILE=USPATFULL ABB=ON PLU=ON (ANTIBACTERIA? OR ANTIMICROB
 ? OR BIOCID? OR BACTERICID? OR BACTERIOSTAT OR ANTIVIR? OR
 ANTIFUNG? OR VIRUCID? OR FUNGICID?)/AB, TI, CLM
 L30 105 SEA FILE=USPATFULL ABB=ON PLU=ON L28 AND L29
 L31 770791 SEA FILE=USPATFULL ABB=ON PLU=ON PACKAG? OR FILM#
 L32 71 SEA FILE=USPATFULL ABB=ON PLU=ON L30 AND L31
 L33 236519 SEA FILE=USPATFULL ABB=ON PLU=ON (PACKAG? OR FILM#)/TI, AB, CLM
 L34 18 SEA FILE=USPATFULL ABB=ON PLU=ON L33 AND L32
 L35 341 SEA FILE=USPATFULL ABB=ON PLU=ON L25 AND L27
 L36 4 SEA FILE=USPATFULL ABB=ON PLU=ON L35 AND L29 AND L33
 L37 18 SEA FILE=USPATFULL ABB=ON PLU=ON L36 OR L34
 L38 58 DUP REM L37 L24 L22 (2 DUPLICATES REMOVED)

=> d bib abs hitstr l38 1-58

L38 ANSWER 1 OF 58 USPATFULL
 AN 2003:44377 USPATFULL
 TI Anti-microbial composition
 IN Falder, Stephen Brian, Knutsford, UNITED KINGDOM
 Rawden, David, Stockport, UNITED KINGDOM
 PA Byotrol LLC (non-U.S. corporation)
 PI US 2003031687 A1 20030213
 AI US 2002-39677 A1 20020104 (10)
 RLI Continuation-in-part of Ser. No. US 2001-756457, filed on 8 Jan 2001,
 PENDING
 PRAI GB 2001-155 20010104
 DT Utility
 FS APPLICATION
 LREP Nelson Mullins Riley & Scarborough, LLP, Keenan Building, Third Floor,
 1330 Lady Street, Columbia, SC, 29201
 CLMN Number of Claims: 45
 ECL Exemplary Claim: 1
 DRWN 4 Drawing Page(s)
 LN.CNT 1647
 AB An anti-microbial composition comprising (i) a first compound having a
 high surface tension of from 20 to 35 mN/m, (ii) a second compound
 having a low surface tension of from 8 to 14 mN/m, (iii) a first
 anti-microbial agent and (iv) a polar solvent, wherein the composition
 acts substantially to prevent the formation of microbial colonies on or
 at a surface of the composition.

L38 ANSWER 2 OF 58 USPATFULL
 AN 2003:10314 USPATFULL
 TI Fast dissolving orally consumable films

IN Leung, Sau-Hung Spence, Parsippany, NJ, UNITED STATES
 Leone, Robert S., Fanwood, NJ, UNITED STATES
 Kumar, Lori D., Skillman, NJ, UNITED STATES
 Kulkarni, Neema, Randolph, NJ, UNITED STATES
 Sorg, Albert F., Columbia, NJ, UNITED STATES
 PI US 2003008008 A1 20030109
 AI US 2002-81018 A1 20020221 (10)
 RLI Division of Ser. No. US 1999-395104, filed on 14 Sep 1999, PENDING
 PRAI US 1998-101798P 19980925 (60)
 DT Utility
 FS APPLICATION
 LREP Pfizer, Inc., 201 Tabor Rd., 56-2S, Morris Plains, NJ, 07950
 CLMN Number of Claims: 47
 ECL Exemplary Claim: 1
 DRWN 2 Drawing Page(s)
 LN.CNT 1298

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Physiologically acceptable **films**, including edible **films**, are disclosed. The **films** include a water soluble **film-forming** polymer such as pullulan. Edible **films** are disclosed that include pullulan and **antimicrobially** effective amounts of the essential oils thymol, methyl salicylate, eucalyptol and menthol. The edible **films** are effective at killing the plaque-producing germs that cause dental plaque, gingivitis and bad breath. The **film** can also contain pharmaceutically active agents. Methods for producing the **films** are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L38 ANSWER 3 OF 58 USPATFULL
 AN 2003:40395 USPATFULL
 TI Sunscreen emulsion composition and method of use
 IN Gonzalez, Anthony D., Waldwick, NJ, United States
 Pechko, Andrew H., Ridgewood, NJ, United States
 Wang, Helen, Suffern, NY, United States
 PA Avon Products, Inc., New York, NY, United States (U.S. corporation)
 PI US 6517816 B1 20030211
 AI US 2001-32847 20011226 (10)
 DT Utility
 FS GRANTED
 EXNAM Primary Examiner: Dodson, Shelley A.
 LREP Ohlandt, Greeley, Ruggiero & Perle, LLP
 CLMN Number of Claims: 37
 ECL Exemplary Claim: 1
 DRWN 3 Drawing Figure(s); 3 Drawing Page(s)
 LN.CNT 492

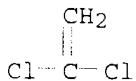
AB There is provided a sunscreen emulsion composition. The composition has an inner discontinuous phase and an outer continuous phase. The inner discontinuous phase and/or outer continuous phase has a sunscreen active therein. The inner discontinuous phase is generally dispersed in the outer continuous phase and is in the form of discrete droplets having a multimodal droplet size distribution. There is also provided a method of protecting skin from overexposure to the sun in which the above composition is applied topically to the skin. There is also provided a method of enhancing the performance of a sunscreen emulsion by forming the inner discontinuous phase as a multiplicity of droplets having a multimodal droplet size distribution. There is also provided a method of preparing an emulsifier-free sunscreen composition.

L38 ANSWER 4 OF 58 USPATFULL
 AN 2002:98859 USPATFULL
 TI Anti-microbial **packaging** polymer and its method of use
 IN Schroeder, Joseph D., Dedham, MA, UNITED STATES
 Scales, J. Chad, Darien, CT, UNITED STATES
 PI US 2002051754 A1 20020502
 AI US 2001-834842 A1 20010413 (9)
 PRAI US 2000-196982P 20000413 (60)
 DT Utility
 FS APPLICATION
 LREP ST. ONGE STEWARD JOHNSTON & REENS, LLC, 986 BEDFORD STREET, STAMFORD, CT, 06905-5619
 CLMN Number of Claims: 35
 ECL Exemplary Claim: 1
 DRWN 10 Drawing Page(s)
 LN.CNT 1210
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The present invention relates to an anti-microbial **packaging** polymer and its method of use, and more particularly to a contact anti-microbial such as **quaternary ammonium** and **phosphonium salts** covalently bound to a polymeric material that may be suitable in a variety of applications such as **film** and **container packaging** of foodstuffs, cosmetics, medical equipment and devices, environmental, hygienic and sanitary applications, as well as other consumer and commercial use. This anti-microbial polymer has the benefit of being **bactericidal**, **fungicidal**, and/or **viricidal**. For example, this anti-microbial feature may result in additional shelf life of the foodstuff contained in the anti-microbial **packaging** polymer of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 IT 9002-85-1, Polyvinylidene chloride 9002-86-2, Polyvinyl chloride 9003-07-0, Polypropylene 25038-59-9, Polyethylene terephthalate, biological studies (anti-microbial packaging polymers)
 RN 9002-85-1 USPATFULL
 CN Ethene, 1,1-dichloro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 75-35-4
 CMF C2 H2 Cl2



RN 9002-86-2 USPATFULL
 CN Ethene, chloro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 75-01-4
 CMF C2 H3 Cl

$\text{H}_2\text{C}=\text{CH}-\text{Cl}$

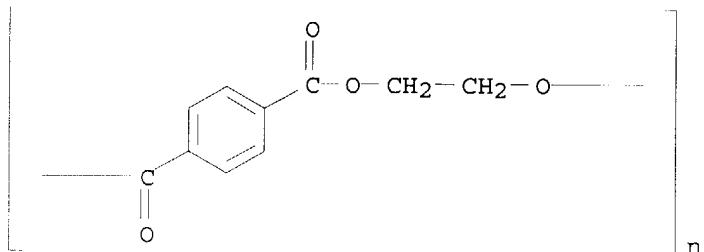
RN 9003-07-0 USPATFULL
 CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1
 CMF C3 H6

$\text{H}_3\text{C}-\text{CH}=\text{CH}_2$

RN 25038-59-9 USPATFULL
 CN Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylene carbonyl) (9CI) (CA INDEX NAME)



L38 ANSWER 5 OF 58 USPATFULL
 AN 2002:251678 USPATFULL
 TI Anti-microbial composition
 IN Falder, Stephen Brian, Knutsford, UNITED KINGDOM
 Rawden, David, Stockport, UNITED KINGDOM
 PI US 2002137631 A1 20020926
 AI US 2001-756457 A1 20010108 (9)
 PRAI GB 2001-155 20010104

DT Utility

FS APPLICATION

LREP Neil C. Jones, Nelson Mullins Riley & Scarborough, Keenan Building,
 Third Floor, 1330 Lady Street, Columbia, SC, 29201

CLMN Number of Claims: 37

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1057

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An anti-microbial composition comprising (i) an anti-microbial agent, (ii) a polar solvent and (iii) a surface orienting species, which orients anti-microbial agent at a surface of the composition, whereby substantially to prevent the formation of microbial colonies on or at the said surface.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L38 ANSWER 6 OF 58 USPATFULL
 AN 2002:209129 USPATFULL
 TI Antimicrobial treatment of polymers

IN Sun, Gang, Davis, CA, United States
 IN Kim, Young Hee, Davis, CA, United States
 PA The Regents of the University of California, Oakland, CA, United States
 (U.S. corporation)
 PI US 6436419 B1 20020820
 AI US 1998-151891 19980911 (9)
 DT Utility
 FS GRANTED
 EXNAM Primary Examiner: Travers, Russell; Assistant Examiner: Wang, Shengjun
 LREP Townsend and Townsend and Crew, LLP
 CLMN Number of Claims: 33
 ECL Exemplary Claim: 1
 DRWN 5 Drawing Figure(s); 5 Drawing Page(s)
 LN.CNT 845
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides durable and refreshable antimicrobial polymers and methods for preparing the same. In some instances, the polymer is a textile. These textiles have excellent colorfastness and washfastness. The antimicrobial fabrics of this invention are suitable for sportswear, antiodor carpets, films, plastics, toys and medical uses.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L38 ANSWER 7 OF 58 HCAPLUS COPYRIGHT 2003 ACS
 AN 2002:615341 HCAPLUS
 DN 137:165000
 TI **Antimicrobial** compositions comprising quaternary ammonium, phenolic, and nitrogen-based heterocyclic compounds
 IN Falder, Stephen Brian; Rawden, David
 PA Byotrol LLC, UK
 SO PCT Int. Appl., 74 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002062142	A1	20020815	WO 2002-GB10	20020102
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	GB 2374011	A1	20021009	GB 2001-155	20010104
	US 2002137631	A1	20020926	US 2001-756457	20010108
PRAI	GB 2001-155	A	20010104		
	US 2001-756457	A	20010108		

AB An anti-microbial compn. comprising (i) a first compd. having a high surface tension of from 20 to 35mN/m, (ii) a second compd. having a low surface tension of from 8 to 14mN/m, (iii) a first anti-microbial agent and (iv) a polar solvent, wherein the compn. acts substantially to prevent the formation of microbial colonies on or at a surface of the compn.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 8 OF 58 HCAPLUS COPYRIGHT 2003 ACS
 AN 2002:539787 HCAPLUS
 DN 137:95569
 TI Manufacture of wipes impregnated with cleaning compositions for removing stains from fabrics and carpets
 IN Micciche, Robert P.; Durden, Catherine; Tripathi, Uma; Mauro, Anthony J.
 PA Playtex Products, Inc., USA
 SO PCT Int. Appl., 33 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055650	A1	20020718	WO 2002-US1124	20020111
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	
	US 2002174500	A1	20021128	US 2002-43872	20020110
PRAI	US 2001-261399P	P	20010112		
	US 2002-43872	A	20020110		

AB Title cleaning compn. comprises at least one surfactant system, at least one preservative system, and a carrier. The cleaning compn. is adjusted to a pH about 7.5 to about 10.5. The wipe has a loading level ratio about 1:1 to about 10:1, based on a total wt. of the cleaning compn. to a total wt. of the wipe. In addn., the wipe cleaning compn. may have at least one enhancing agent including a skin softening, conditioning agent, a pH control agent, a malodor reducing system, alc., and a soil resist. Thus, a non-alc. cleaning wipe compn. comprises water 97.4, sodium octyl sulfate/Sodium caprylyl sulfonate/octoxynol-9 (surfactants) 1.6, sodium bicarbonate (enhancing agent) 0.5, 1-(3-chloroallyl)-3,5,7-azoniaadamantane chloride (preservative) 0.1, anionic fluorosurfactant (soil resist) 0.1, and fragrance 0.3 wt%.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 9 OF 58 HCAPLUS COPYRIGHT 2003 ACS
 AN 2002:487683 HCAPLUS
 DN 137:64640
 TI System for coating floors
 IN Scheuvens, Ulrike; Rogmann, Karl-Heinz; Faubel, Heiko; Decker, Michael
 PA Henkel Ecolab GmbH & Co. Ohg, Germany
 SO PCT Int. Appl., 22 pp.
 CODEN: PIXXD2

DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002050205	A1	20020627	WO 2001-EP14561	20011212
	W: PL, US			RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR	
	DE 10064413	A1	20020711	DE 2000-10064413	20001221

PRAI DE 2000-10064413 A 20001221

OS MARPAT 137:64640

AB The invention relates to a system for covering floors which contains, (a) one or more agents, sep. or jointly comprising a polymer-wax dispersion and aziridine and, optionally, a matting agent for application on a floor in order to form a crosslinked wet chem. non-removable base-film and (b) an aziridine-free agent contg. std. floor-care components, particularly a polymer-wax dispersion, for producing a wet chem. removable sacrificial film on the above mentioned base-film. Little or no yellowing of the coated floors is obsd. with this system esp. when the removable coating contains microbicides. A typical nonremovable aq. coating compn. contained aziridine-crosslinked polyacrylate 19, polyethylene-polypropylene wax dispersion 3, polyurethane dispersion 2, and surfactant 2%.

IT 9002-88-4, Polyethylene 9003-07-0,

Polypropylene

RL: TEM (Technical or engineered material use); USES (Uses) (wax; coating floors with aziridine-crosslinked polymer films contg. wax for decreased yellowing when cleaned/polished with compns. contg. microbicides)

RN 9002-88-4 HCAPLUS

CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1

CMF C2 H4



RN 9003-07-0 HCAPLUS

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 10 OF 58 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:381237 HCAPLUS

DN 136:374877

TI Wet tissue-type topical drug delivery systems, and method for applying the same

IN Aratani, Yoshimitsu; Mikami, Ikuko; Yahagi, Ichiro

PA Pigeon Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO. DATE

PI JP 2002145762 A2 20020522 JP 2000-344166 20001110
 PRAI JP 2000-344166 20001110

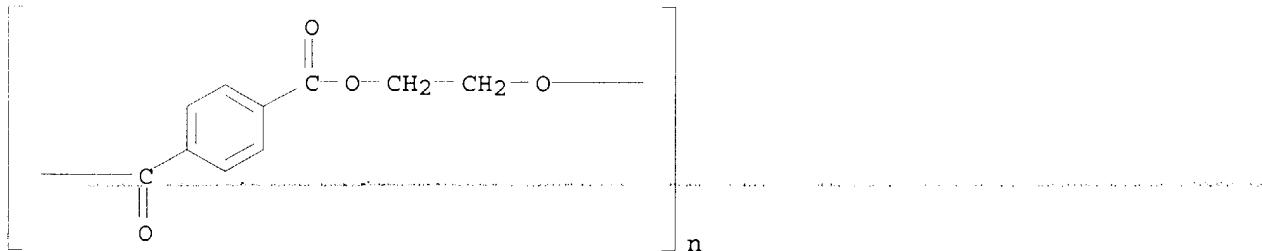
AB The invention provides a wet tissue-type topical drug delivery system having an base fabric sheet contg. a drug in wet condition, suitable for applying the drug without direct touch. An absorbent cotton sheet (130 times. 99 mm) contg. diphenhydramine hydrochloride 1, benzalkonium chloride 0.4, 1,3-butylene glycol 6, ethanol 2, Me paraben 0.15, Et paraben 0.1, and water balance to 100 % was prep., folded to a size of 33 times. 65 mm, and packaged in a PET/Al/polypropylene laminated plastic pouch.

IT 9003-07-0, **Polypropylene 25038-59-9**,
Polyethylene terephthalate, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (packaging with; wet tissue-type topical drug delivery systems contg. antihistamine agents, **antimicrobial** agents, and wetting agents)
 RN 9003-07-0 HCPLUS
 CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1
 CMF C3 H6
$$\text{H}_3\text{C}-\text{CH}=\text{CH}_2$$

RN 25038-59-9 HCPLUS
 CN Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylene carbonyl) (9CI) (CA INDEX NAME)



L38 ANSWER 11 OF 58 HCPLUS COPYRIGHT 2003 ACS
 AN 2002:23389 HCPLUS
 DN 136:71233
 TI Hygienic laminated fabrics for **packaging** nursing equipments
 IN Aiyama, Kazunori; Sugino, Chie; Funamoto, Hideo
 PA Shiga Shokusan K. K., Japan; Morishita Chemical Industry Co., Ltd.
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI JP 2002002774	A2	20020109	JP 2000-179686	20000615

PRAI JP 2000-179686 20000615
 AB The laminated fabrics comprise (a) outer synthetic fabrics equipped with binding materials and (b) inner cushioning materials contg. cushion layers with sp. gr. ≥ 0.01 g/cm³, thickness ≥ 0.5 mm, and compressibility (under 10 g/cm² load) 10-80% and surface layers. Thus, a laminate comprising (a) an outer fluoropolymer-coated nylon fabric equipped with nylon belts, (b) a polyester fabric cushion with sp. gr. 0.03 g/cm³, thickness 12 mm, and compressibility 51%, and (c) a nylon taffeta surface layer coated with a quaternary ammonium salt showed good water-repellent, antibacterial, and deodorant properties.

L38 ANSWER 12 OF 58 USPATFULL
 AN 2001:160696 USPATFULL
 TI Fast dissolving orally consumable **films**
 IN Leung, Sau-Hung S., Parsippany, NJ, United States
 Leone, Robert S., Fanwood, NJ, United States
 Kumar, Lori D., Skillman, NJ, United States
 Kulkarni, Neema, Randolph, NJ, United States
 Sorg, Albert F., Columbia, NJ, United States
 PI US 2001022964 A1 20010920
 AI US 2001-836474 A1 20010418 (9)
 RLI Division of Ser. No. US 1999-395104, filed on 14 Sep 1999, PENDING
 PRAI US 1998-101798P 19980925 (60)
 DT Utility
 FS APPLICATION
 LREP FITZPATRICK CELLA HARPER & SCINTO, 30 ROCKEFELLER PLAZA, NEW YORK, NY, 10112
 CLMN Number of Claims: 47
 ECL Exemplary Claim: 1
 DRWN 2 Drawing Page(s)
 LN.CNT 1306

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Physiologically acceptable **films**, including edible **films**, are disclosed. The **films** include a water soluble **film**-forming polymer such as pullulan. Edible **films** are disclosed that include pullulan and antimicrobially effective amounts of the essential oils thymol, methyl salicylate, eucalyptol and menthol. The edible **films** are effective at killing the plaque-producing germs that cause dental plaque, gingivitis and bad breath. The **film** can also contain pharmaceutically active agents. Methods for producing the **films** are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L38 ANSWER 13 OF 58 USPATFULL
 AN 2001:1488 USPATFULL
 TI Antimicrobial multi-layer island dressing
 IN Dobos, John A., East Amherst, NY, United States
 Mabry, Ronald D., Orchard Park, NY, United States
 PA Medwrap Corporation, Amherst, NY, United States (U.S. corporation)
 PI US 6168800 B1 20010102
 AI US 1998-137040 19980820 (9)
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Clardy, S. Mark; Assistant Examiner: Shelborne, Kathryne E.
 LREP Ellis, Howard M., Fuierer, Marianne
 CLMN Number of Claims: 31
 ECL Exemplary Claim: 1

DRWN 12 Drawing Figure(s); 6 Drawing Page(s)

LN.CNT 846

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An **antimicrobial** multi-layer island dressing including an inner absorbent assembly having a first layer comprising a wound contacting non-absorbent, non-adhering porous polymeric **film** which is impregnated with a broad spectrum **antimicrobial** agent, a second layer comprising a semipermeable continuous polymeric **film** joined to the first layer to form a sealed interior reservoir compartment, an absorbent material positioned within the interior reservoir compartment to collect discharged exudate from a wound, and an outer layer extending beyond the peripheral edges of the inner absorbent assembly, the outer layer having at least a portion coated with an adhesive material for adhering the island dressing to the wound area. The preferred **antimicrobial** agent is 2,4,4'-trichloro-2'-hydroxydiphenyl ether and may be present in an amount from about 0.01 to about 25 percent by weight of **film** material.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 9003-07-0, Polypropylene

(antimicrobial multi-layer island dressing)

RN 9003-07-0 USPATFULL

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6

$$\text{H}_3\text{C}-\text{CH}=\text{CH}_2$$

L38 ANSWER 14 OF 58 HCPLUS COPYRIGHT 2003 ACS

AN 2001:713109 HCPLUS

DN 135:262242

TI Fast dissolving orally consumable **films** containing an ion exchange resin as a taste masking agentIN Bess, William S.; Kulkarni, Neema; Ambike, Suhas H.; Ramsay, Michael Paul
PA Warner-Lambert Company, USA

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001070194	A1	20010927	WO 2001-US2192	20010123
W: AE, AG, AL, AU, BA, BB, BG, BR, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1267829	A1	20030102	EP 2001-959912	20010123
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

NO 2002004513	A	20020920	NO 2002-4513	20020920
PRAI US 2000-535005	A	20000323		
WO 2001-US2192	W	20010123		

AB Physiol. acceptable films, including edible films, are disclosed. The films include a water sol. film-forming polymer, such as pullulan, and a taste masked pharmaceutically active agent, such as dextromethorphan. The taste masking agent is preferably a sulfonated polymer ion exchange resin comprising polystyrene cross-linked with divinylbenzene, such as Amberlite. Methods for producing the films are also disclosed. For example, an antitussive film was prep'd. in accordance with the following procedure: (A) uncoated dextromethorphan hydrobromide was dissolved with mixing in the water, while maintaining the temp. at 75.degree., Amberlite resin was then mixed into the water with heating at 70-80.degree., and heating was stopped, water lost to evapn. was replaced, and the potassium sorbate and sweeteners were then added to the compn. with mixing to form Prepn. A. (B) The film-forming ingredients (i.e., xanthan gum, locust bean gum, carrageenan and pullulan) were mixed in a sep. container to form Prepn. B. (C) Prepn. B was slowly added to Prepn. A with rapid mixing, followed by overnight mixing at a reduced rate to provide Prepn. C. (D) The menthol was dissolved with mixing in the alc. in a sep. container. The Physcool was then dissolved with mixing therein. Monoammonium glycyrrhizinate, Polysorbate 80, Atmos 300 and flavors were then added to the mixt. and mixed to enhanced uniformity to form Prepn. D. (E) Prepn. D, glycerin and mannitol were added to Prepn. C with thorough mixing to provide Prepn. E. Prepn. E was poured on a mold and cast to form a film of a desired thickness at room temp. The film was dried under warm air and cut to a desired dimension (dictated by, e.g., dosage and mouthfeel) for taste testing. The active film had a pleasing appearance and taste.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 15 OF 58 HCPLUS COPYRIGHT 2003 ACS

AN 2001:752965 HCPLUS

DN 135:304835

TI Antibacterial propylene polymer paper substitutes

IN Yamada, Kazuhiro; Kuroda, Takashi; Hiraki, Soichiro; Kojima, Takashi

PA Chisso Corp., Japan; Chisso Sekiyu Kagaku K. K.

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2001287322	A2	20011016	JP 2000-105290	20000406
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PRAI JP 2000-105290 20000406

AB The substitutes have layers comprising polymers bearing quaternary ammonium salt groups and CO₂H on side chains at 0.01-0.1 g/m² (as solids) formed on porous films comprising cryst. propylene polymers. Thus, pellets contg. cryst. polypropylene powder 100, dicyclopentadiene-based petroleum resin 8, and CaCO₃ 8 parts were extruded, stretched, and shrunk to give a film, which was coated with a soln. contg. Bondeip PA 100 (polymer having quaternary ammonium salt groups and CO₂H) and a crosslinking agent at 0.02 mg/m².

IT 9003-07-0, Polypropylene

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(antibacterial propylene polymer paper substitutes)

RN 9003-07-0 HCPLUS

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1
CMF C3 H6L38 ANSWER 16 OF 58 HCPLUS COPYRIGHT 2003 ACS
AN 2001:753914 HCPLUS

DN 135:304864

TI **Antibacterial** propylene polymer paper substitutes
IN Hiraki, Soichiro; Yamada, Kazuhiro; Kuroda, Takashi
PA Chisso Corp., Japan; Chisso Sekiyu Kagaku K. K.
SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

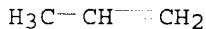
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001287321	A2	20011016	JP 2000-105289	20000406
PRAI	JP 2000-105289		20000406		
AB	The substitutes have polymer layers contg. polylysine at 0.001-0.1 g/m ² (as polylysine solid) formed on porous films comprising cryst. propylene polymers. Thus, pellets contg. cryst. polypropylene powder 100, dicyclopentadiene-based petroleum resin 8, and CaCO ₃ 8 parts were extruded, stretched, and shrunk to give a film, which was coated with a soln. contg. Bondeip PA 100 (polymer having quaternary ammonium salt groups and CO ₂ H), a crosslinking agent, and polylysine at 0.001 mg/m ² (as polylysine solid).				
IT	9003-07-0, Polypropylene RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (antibacterial propylene polymer paper substitutes)				
RN	9003-07-0 HCPLUS				
CN	1-Propene, homopolymer (9CI) (CA INDEX NAME)				

CM 1

CRN 115-07-1
CMF C3 H6

L38 ANSWER 16 OF 58 HCPLUS COPYRIGHT 2003 ACS

AN 2001:753914 HCPLUS

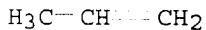
DN 135:304864

TI **Antibacterial** propylene polymer paper substitutes
IN Hiraki, Soichiro; Yamada, Kazuhiro; Kuroda, Takashi
PA Chisso Corp., Japan; Chisso Sekiyu Kagaku K. K.
SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001287321	A2	20011016	JP 2000-105289	20000406
PRAI	JP 2000-105289		20000406		
AB	The substitutes have polymer layers contg. polylysine at 0.001-0.1 g/m ² (as polylysine solid) formed on porous films comprising cryst. propylene polymers. Thus, pellets contg. cryst. polypropylene powder 100, dicyclopentadiene-based petroleum resin 8, and CaCO ₃ 8 parts were extruded, stretched, and shrunk to give a film, which was coated with a soln. contg. Bondeip PA 100 (polymer having quaternary ammonium salt groups and CO ₂ H), a crosslinking agent, and polylysine at 0.001 mg/m ² (as polylysine solid).				
IT	9003-07-0, Polypropylene RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (antibacterial propylene polymer paper substitutes)				
RN	9003-07-0 HCAPLUS				
CN	1-Propene, homopolymer (9CI) (CA INDEX NAME)				
CM	1				
CRN	115-07-1				
CMF	C3 H6				



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L38 ANSWER 17 OF 58 HCAPLUS COPYRIGHT 2003 ACS
 AN 2001:736954 HCAPLUS
 DN 135:304616
 TI **Antibacterial poly(vinyl chloride)-type resin sheets**
 IN Hayakawa, Satoshi
 PA Toyobo Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2001279043 A2 20011010 JP 2000-98893 20000331
 PRAI JP 2000-98893 20000331

OS MARPAT 135:304616

AB Antibacterial sheets are molded from poly(vinyl chloride) resins and contain quaternary phosphonium salt compds. represented by $(X1)(X2)ASO_3^+P^+(R_1^+)(R_2^+)(R_3^+)(R_4^+)$, wherein A^+ = aroms., R_1^+ and R_2^+ = C3-18 linear or branched alkyl, R_3^+ , R_4^+ , R_5^+ , and R_6^+ = linear or branched alkyl 3 of which are C4 alkyl and 4th one os C12 alkyl. Thus, 4.4 parts tri-n-butyldodecylphosphonium chloride dissolved in 200 parts water was added dropwise to 5.00 parts 5-sulfoisophthalic acid di-n-octyl sodium dissolved in 200 parts water in room temp., and reacted for 1 h to give a phosphonium salt complex. PVC resin (d.p. 1000) 100, the phosphonium salt complex 70, zinc stearate 1, and calcium stearate 0.5 parts were kneaded and molded into a 0.5 mm-thick sheet.

IT 9002-86-2, Poly(vinyl chloride)

RL: TEM (Technical or engineered material use); USES (Uses)
 (prepn. of **antibacterial** poly(vinyl chloride)-type resin sheets)

RN 9002-86-2 HCAPLUS

CN Ethene, chloro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 75-01-4

CMF C2 H3 Cl



L38 ANSWER 18 OF 58 HCAPLUS COPYRIGHT 2003 ACS
 AN 2001:128394 HCAPLUS

DN 134:179871

TI Coating materials for sewn products containing adhesives and workability improvers for imparting various functional properties to the sewn products and manufacture of coating materials therefor and coating sewn products with coatings therefrom

IN Sadanari, Shigeyuki; Kimura, Masanao

PA Yuken Chemical K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001049581	A2	20010220	JP 1999-222277	19990805
PRAI	JP 1999-222277		19990805		

AB The coatings essentially contain mixts. (A) comprising adhesives, viscosity adjustors, workability improvers, and color adjusting agents, or the coating materials comprise (A) mixts. contg. softening agents or A mixts. contg. dye discharging agents or A mixts. contg. color developing agents or A mixts. contg. water repellents or A mixts. contg. metals or vapor-deposited metal-coated substances or A mixts. contg. ceramics. Coated sewn products are prep'd. by coating sewn products with A mixts. by the roller coating method, spray coating method, or printing method, drying the coating, and hot pressing the coating. Aq. aliph. polyester-polyurethane dispersion 40, di-Me polysiloxane 5, monoethylene glycol 5, monoethanolamine 4, alkyl ether-type nonionic surfactant 2,

carboxylic acid 0.5, waterborne pigment 4, isocyanate crosslinking agent 4, and H₂O 39.5 parts were mixed to give a coating compn. A jean was coated with the coating compn., dried, and hot pressed to give a jean exhibiting leather-like surface and showing good smoothness and luster.

IT 9002-88-4, **Polyethylene**

RL: TEM (Technical or engineered material use); USES (Uses)
(coating; coating materials for sewn products contg. adhesives and workability improvers for imparting various functional properties to the sewn products and manuf. of coating materials therefor)

RN 9002-88-4 HCAPLUS

CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1

CMF C2 H4



IT 9003-07-0, **Polypropylene**

RL: MOA (Modifier or additive use); USES (Uses)
(water repellent; coating materials for sewn products contg. adhesives and workability improvers for imparting various functional properties to the sewn products and manuf. of coating materials therefor)

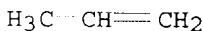
RN 9003-07-0 HCAPLUS

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6



L38 ANSWER 19 OF 58 HCAPLUS COPYRIGHT 2003 ACS

AN 2001:111349 HCAPLUS

DN 134:164588

TI **Antimicrobial** coatings and their coated products

IN Ito, Takashi; Hiraki, Jun; Ii, Takeshi; Shigemitsu, Masahiro

PA Chisso Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2001040273	A2	20010213	JP 1999-212463	19990727
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PRAI JP 1999-212463 19990727

AB Title coatings contain vehicles, miscible solvents, and antimicrobial agents selected from epsilon-polylysine (salts) and their adducts. A compn. contg. poly(vinylpyrrolidone), poly(vinyl acetate), iso-PrOH, and epsilon-polylysine was spread on a polycarbonate sheet to form a film with good adhesion to the plate and antimicrobial ability.

IT 9002-88-4, **Polyethylene**

RL: MSC (Miscellaneous)
 (polylysine (salt or adduct) **antimicrobial** agent-contg.
 coatings for plastics or metals)

RN 9002-88-4 HCAPLUS
 CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1
 CMF C2 H4



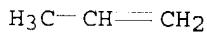
IT 9003-07-0, **Polypropylene** 25038-59-9, PET
 polymer, miscellaneous

RL: MSC (Miscellaneous)
 (substrate; polylysine (salt or adduct) **antimicrobial**
 agent-contg. coatings for plastics or metals)

RN 9003-07-0 HCAPLUS
 CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

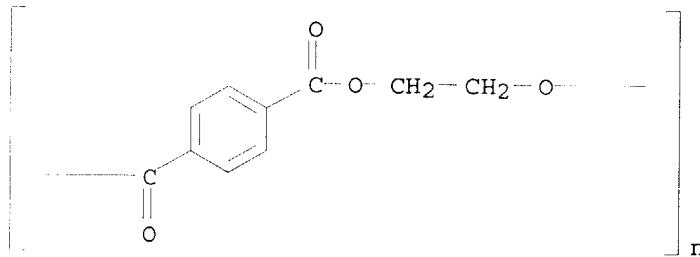
CM 1

CRN 115-07-1
 CMF C3 H6



RN 25038-59-9 HCAPLUS

CN Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylene carbonyl) (9CI) (CA INDEX
 NAME)



L38 ANSWER 20 OF 58 HCAPLUS COPYRIGHT 2003 ACS

AN 2001:67386 HCAPLUS

DN 134:132618

TI **Antibacterial polyamide films** with good
 durability

IN Ohashi, Hidehito; Hayakawa, Satoshi; Kobase, Shigeji

PA Toyobo Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001026086	A2	20010130	JP 1999-199650	19990713
PRAI	JP 1999-199650		19990713		
OS	MARPAT 134:132618				
AB	<p>The films contain base films which mainly comprise polyamides and are laminated with antibacterial compns. contg. radiation-curable polymers, polyesters having X1X2AS03-P+R1R2R3R4 (A = arom. group; X1, X2 = ester bond-forming functional group; R1-R4 = alkyl; .gtoreq.1 of R1-R4 = C10-20 alkyl), and hydrophilic substances which may bond with the polyesters. A mixt. of nylon 6 (I) and I-nylon 6T copolymer was laminated with I and biaxially stretched to give a film. A soln. contg. di-Me terephthalate-dimethyl isophthalate-tributylidodecylphosphonium 5-sulfodimethylisophthalate-ethylene glycol-neopentyl glycol-acrylic acid-Et acrylate graft copolymer and Beamset 700 (radiation-curable acrylic prepolymer) was applied on the film, dried, and cured by UV-irradn to give a product showing no apparent change after soaking in water at 95 .+- 2.degree. for 2 h.</p>				

L38 ANSWER 21 OF 58 HCPLUS COPYRIGHT 2003 ACS
 AN 2001:69158 HCPLUS

DN 134:132638

TI **Antimicrobial** polyolefin laminates with good heat and water resistanceIN Miyamoto, Kenichi; Hayakawa, Satoshi; Ohashi, Hideto; Kobase, Shigeji
 PA Toyobo Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001026076	A2	20010130	JP 1999-199518	19990713
PRAI	JP 1999-199518		19990713		
OS	MARPAT 134:132638				

AB The laminates comprise antimicrobial layers, contg. polymers having ammonium and/or phosphonium salts, on .gtoreq.1 sides of polyolefin base materials. A soln. contg. di-Me terephthalate-dimethyl isophthalate-tributylidodecylphosphonium 5-sulfodimethylisophthalate-ethylene glycol-neopentyl glycol-fumaric acid-acrylic acid-Et acrylate graft copolymer was applied on a polypropylene film to give a product showing no change in appearance and antimicrobial properties after exposure to hot water or moisture.

IT 9003-07-0, **Polypropylene**

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(film; base materials for **antimicrobial** laminates
 with good heat and water resistance)

RN 9003-07-0 HCPLUS

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6

H₃C—CH=CH₂

L38 ANSWER 22 OF 58 HCAPLUS COPYRIGHT 2003 ACS
 AN 2001:38379 HCAPLUS

DN 134:87333

TI **Antibacterial laminated polyester films**

IN Ohashi, Hideto; Hayakawa, Satoshi; Kobase, Shigeji

PA Toyobo Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2001010001	A2	20010116	JP 1999-187319	19990701
PRAI JP 1999-187319		19990701		

AB The film, useful for covering cards in medical use, etc., comprise (A) a surface layer of hydrophilic components, photocurable components, and polyesters contg. X₁X₂ASO₃-R₁R₂R₃R₄P+ (A = arom. group; X₁, X₂ = esterifiable functional group; R₁₋₄ = alkyl, at least one of them is C₁₀₋₂₀-alkyl) as acid components and (B) a thermoplastic resin layer on the other surface. Thus, a compn. contg. di-Me terephthalate-dimethyl isophthalate-dimethyl 5-sulfoisophthalate tri(n-butyl)dodecylphosphonium salt-ethylene glycol-neopentyl glycol-acrylic acid-Et acrylate graft copolymer, a photocurable acrylic prepolymer (Beamset 700), and a photoinitiator was applied on a polyester film, UV-cured, and laminated with an LDPE film on the other side to give a test piece showing surface pencil hardness H and good heat resistance and antibacterial property against staphylococcal.

IT 9002-88-4, LDPE

RL: PRP (Properties); TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(**antibacterial laminated films comprising phosphonium salt**-contg. polyesters)

RN 9002-88-4 HCAPLUS

CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1

CMF C2 H4

H₂C=CH₂

L38 ANSWER 23 OF 58 USPATFULL

AN 2000:4439 USPATFULL

TI **Antibacterial composition and antibacterial laminate**

IN Konagaya, Shigeji, Ohtsu, Japan

Ohashi, Hideto, Ohtsu, Japan

Hamano, Akito, Ohtsu, Japan

Seko, Masahiro, Ohtsu, Japan

Tanaka, Masakazu, Ohtsu, Japan

PA Toyo Boseki Kabushiki Kaisha, Osaka, Japan (non-U.S. corporation)

PI US 6013275 20000111
 AI US 1998-4069 19980108 (9)
 RLI Continuation-in-part of Ser. No. WO 1997-JP1570, filed on 8 May 1997
 PRA1 JP 1996-140691 19960510
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Weddington, Kevin E.
 LREP Kenyon & Kenyon
 CLMN Number of Claims: 21
 ECL Exemplary Claims: 1
 DRWN No Drawings
 LN.CNT 2034

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

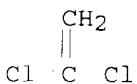
AB Since an inorganic and/or organic **antibacterial** agent and a hydrophilic substance are used in combination in this invention to produce an **antibacterial** composition, the intrinsic **antibacterial** activity of the inorganic or organic **antibacterial** agent is markedly increased, so that the **antibacterial** agent used even in a low concentration shows a high **antibacterial** activity. High **antibacterial** moldings can be obtained at a relatively low cost by laminating the **antibacterial** composition of the invention on an inorganic or organic substrate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 9002-85-1, Polyvinylidene chloride 9002-86-2, Polyvinyl chloride 9002-88-4, Polyethylene 9003-07-0, Polypropylene (antibacterial laminates contg. org. and inorg. antibacterials on thermoplastic resins)
 RN 9002-85-1 USPATFULL
 CN Ethene, 1,1-dichloro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 75-35-4
CMF C2 H2 Cl2



RN 9002-86-2 USPATFULL
 CN Ethene, chloro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 75-01-4
CMF C2 H3 Cl



RN 9002-88-4 USPATFULL
 CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1
CMF C2 H4

$\text{H}_2\text{C}\equiv\text{CH}_2$

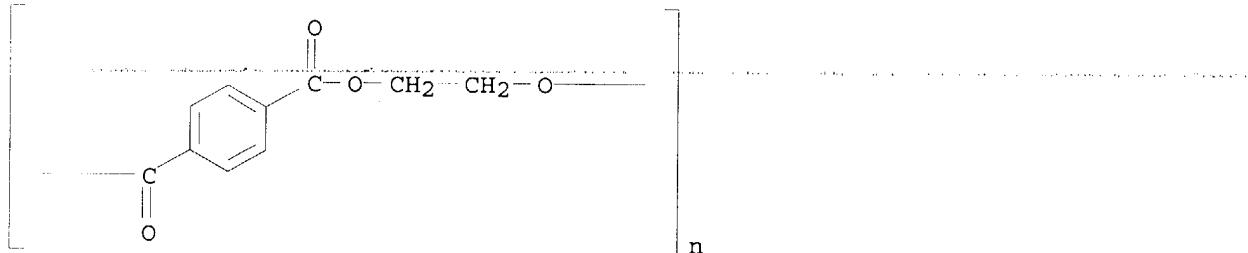
RN 9003-07-0 USPATFULL
CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1
CMF C3 H6

$\text{H}_3\text{C}-\text{CH}\equiv\text{CH}_2$

IT 25038-59-9, Polyethylene terephthalate, biological studies
(film; antibacterial laminates contg. org. and inorg. antibacterials on
thermoplastic resins)
RN 25038-59-9 USPATFULL
CN Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylene carbonyl) (9CI) (CA INDEX
NAME)



L38 ANSWER 24 OF 58 HCPLUS COPYRIGHT 2003 ACS
AN 2002:26656 HCPLUS
DN 136:58793
TI Agent showing anesthetic and **antibacterial** effect
IN Chukhadzhyan, A. G.; Chukhadzhyan, G. A.
PA Russia
SO Russ., No pp. given
CODEN: RUXXE7
DT Patent
LA Russian
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	RU 2153326	C2	20000727	RU 1998-111644	19980618
PRAI	RU 1998-111644		19980618		
AB	The invention relates to drugs used for treatment of the oral cavity and gums. The agent is a film made of combined hydrophobic and hydrophilic layers with inclusion of medicinal agents being both anesthetic and antibacterial substances that improve transport of preps., sulfanilamide preps. and topical anesthetic preps. The agent shows combined				

analgesic, anti-inflammatory, desensitizing and antibacterial effects.

L38 ANSWER 25 OF 58 HCPLUS COPYRIGHT 2003 ACS
AN 2000:766729 HCPLUS

DN 133:336208

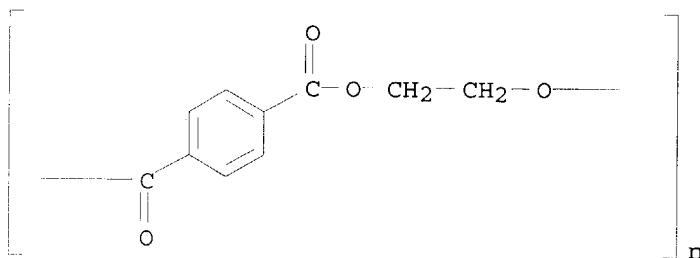
TI **Antibacterial films** with excellent durability
IN Hayakawa, Satoshi; Ohashi, Hideto; Kobase, Shigeji
PA Toyobo Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000301669	A2	20001031	JP 1999-112541	19990420
PRAI	JP 1999-112541		19990420		
AB	The films, contg. antibacterial compns. in at least one surface layer, satisfy haze change $\leq 1.0\%$ per 10 μm after 100-h boiling in H_2O , fungus resistance (JIS Z 2911 6.2.2) ≥ 2 both before and after 100-h boiling in H_2O , 3-dimensional surface roughness $\geq 0.4 \mu\text{m}$, no. of protrusions $\geq 2000/\text{mm}^2$, and air permeation rate $\leq 500 \text{ s}$. Thus, a biaxially oriented film comprising di-Me terephthalate-di-Me 5-sulfoisophthalate tributyldecylphosphonium salt-ethylene glycol copolymer [contg. 0.5% crosslinked poly(Me methacrylate) particles] showed good antibacterial properties and abrasion resistance.				
IT	25038-59-9P, Poly(ethylene terephthalate), uses RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Uses) (antibacterial films based on onium salt-contg. polymers with good abrasion and boiling water resistance)				
RN	25038-59-9 HCPLUS				
CN	Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylene carbonyl) (9CI) (CA INDEX NAME)				



L38 ANSWER 26 OF 58 HCPLUS COPYRIGHT 2003 ACS

AN 2000:706939 HCPLUS

DN 133:280877

TI **Antimicrobial and antiviral compositions and treatments for food surfaces**

IN Hei, Robert D. P.; Smith, Kim R.; Laugen, Polly D.; Cords, Bruce R.; Kennedy, Shaun P.

PA Ecolab Inc., USA

SO PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000057730	A1	20001005	WO 2000-US6148	20000309
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI US 1999-277626 A 19990326

OS MARPAT 133:280877

AB An antimicrobial and antiviral compn. in powder form or in the form of a two part liq. conc. for washing and sanitizing foods, food surfaces, food ware, process waters, animal quarters, and animal carcasses is described. The compn. may also be used to reduce the microbial and viral population on animals; reducing human pathogenic microbes, reducing opportunistic pathogenic microbes on eggs, and treating skin diseases. The compn. includes three reactive species which in soln. form an oxidizing species, and optionally a food grade acid source. The reactive species include a natural source of a quaternary or protonizable nitrogen compd. which is acceptable on foods, an oxidant and a halide source.

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 27 OF 58 HCAPLUS COPYRIGHT 2003 ACS

AN 2000:905575 HCAPLUS

DN 134:61242

TI Light-stable antiperspirant compositions containing water-insoluble powder **packaged** with highly-transparent material

IN Nishida, Yuichi; Udagawa, Akihiro; Shibuya, Nobuko; Watanabe, Yoji

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000355529	A2	20001226	JP 1999-165848	19990611
PRAI	JP 1999-165848		19990611		
AB	The package comprises a monolayer or multilayer packaging material which shows parallel light transmission $\geq 70\%$ and a compn. contg. antiperspirants, perfumes, and water-insol. powder with sp. gr. 0.9-4.0 contained therein. The compns. are free from light-induced deterioration even though it is contained in transparent containers. A compn. contg. Zn p-phenolsulfonate 1.0, Al chlorohydrate 5.0, Zn ricinoleate 1.0, nylon powder (sp. gr. 1.02, particle size 10 μm) 0.5, polyethylene powder (sp. gr. 0.92, particle size 8 μm) 0.5, talc (sp. gr. 2.70, particle size 10 μm) 0.5, SiO ₂ (sp. gr. 2.9, particle size 10 μm) 0.5, a perfume prepn. 0.1, benzalkonium chloride 0.2, di-K glycyrrhetinate 0.2, iso-Pr myristate 0.5%, and EtOH balance was packed in a polyacrylonitrile container in which Tinuvin 328 was kneaded. The container was exposed to sunlight by cumulative exposure 500 Langley to show slight changes in the aroma and the color of the content.				

IT 9002-86-2, Poly(vinyl chloride) 25038-59-9,
 Poly(ethylene terephthalate), biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

(packaging material; antiperspirant compns. contg. sp.
 gr.-controlled water-insol. powder as light stabilizers
 packaged with transparent containers)

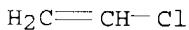
RN 9002-86-2 HCPLUS

CN Ethene, chloro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

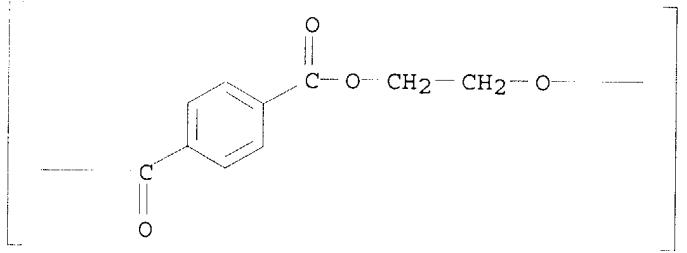
CRN 75-01-4

CMF C2 H3 Cl



RN 25038-59-9 HCPLUS

CN Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylenecarbonyl) (9CI) (CA INDEX NAME)



IT 9002-88-4, Polyethylene

RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
 BIOL (Biological study); USES (Uses)
 (powder; antiperspirant compns. contg. sp. gr.-controlled water-insol.
 powder as light stabilizers packaged with transparent
 containers)

RN 9002-88-4 HCPLUS

CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1

CMF C2 H4



L38 ANSWER 28 OF 58 USPATFULL

AN 1999:18843 USPATFULL

TI Internally-coated porous webs with controlled positioning of modifiers
 therein

IN Caldwell, J. Michael, Cardiff, CA, United States

PA Nextec Applications, Inc., Vista, CA, United States (U.S. corporation)

PI US 5869172 19990209
 AI US 1995-442983 19950517 (8)
 RLI Continuation-in-part of Ser. No. US 1995-407191, filed on 17 Mar 1995
 which is a continuation-in-part of Ser. No. US 1993-17855, filed on 16
 Feb 1993, now patented, Pat. No. US 5418051 which is a continuation of
 Ser. No. US 1991-680645, filed on 2 Apr 1991, now patented, Pat. No. US
 5209965 which is a continuation of Ser. No. US 1989-319778, filed on 10
 Mar 1989, now patented, Pat. No. US 5004643 which is a
 continuation-in-part of Ser. No. US 1988-167630, filed on 14 Mar 1988
 Ser. No. Ser. No. US 1988-167643, filed on 14 Mar 1988 Ser. No. Ser. No.
 US 1988-167797, filed on 14 Mar 1988 And Ser. No. US 1988-167869, filed
 on 14 Mar 1988

DT Utility

FS Granted

EXNAM Primary Examiner: Bell, James J.

LREP Becker, Stanley A.

CLMN Number of Claims: 154

ECL Exemplary Claim: 1

DRWN 11 Drawing Figure(s); 7 Drawing Page(s)

LN.CNT 4482

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Improved processes are provided for treating a porous substrate
 (especially a fabric) to produce novel internally coated porous
 materials. During treatment, a curable thixotropic material and one or
 modifying materials are applied to the porous substrate as an
 impregnant. The treatment imparts specific properties to the end product
 material. Selection of the modifier material is based on the particular
 end use application. Sufficient energy is directed to the impregnant and
 porous substrate to cause the impregnant to flow into the porous
 substrate and force the modifier to specific positions within the
 substrate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L38 ANSWER 29 OF 58 HCPLUS COPYRIGHT 2003 ACS

AN 1999:614012 HCPLUS

DN 131:229937

TI Stable rubber emulsions, and their manufacture and use

IN Crepeau, Colette; Hoerner, Pierre; Riess, Gerard

PA Hutchinson, Fr.

SO PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9947589	A1	19990923	WO 1999-FR586	19990316
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 981573	A1	20000301	EP 1999-907719	19990316
	R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, MC, FI				
	JP 2002501572	T2	20020115	JP 1999-546648	19990316
	US 6391326	B1	20020521	US 2000-423638	20000207
PRAI	FR-1998-3234	A	19980317		
	WO 1999-FR586	W	19990316		
AB	Stable emulsions of at least one chem. substance (x) that modifies proteins by simple contact, chem. reaction, or physico-chem. effect (such as surface-tension modification), in an elastomer soln., to be used for				

prep. an elastomer film, comprise (1) a phase A contg. an elastomer dissolved in an org. apolar or slightly polar solvent, wherein is dispersed (2) a phase B contg. at least said chem. substance (x), in soln. or dispersed in a polar solvent, nonmiscible with phase A and (3) at least a dispersing agent selected from the group consisting of block or grafted polymers. Said emulsions are characterized in that the dispersed phase B droplets have a diam. ≥ 10 mm; said emulsion comprises, for stabilizing said dispersed phase B, besides at least one dispersing copolymer comprising poly A sequences, compatible with phase A and poly B sequences compatible with phase B, at least a particulate stabilizer selected from the group consisting of solid org. compds. of dimension ranging between 30 nm and 10 mm or solid mineral compds. of dimension ranging between 5 nm and 10 mm, whereof the surface state is organophilic; the mass fraction of the dispersed phase (phase B) in the emulsion ranges between 0.01 and 0.2; the mass fraction of block or grafted copolymers expressed relative to dispersed phase B ranges between 0.001 and 0.3, preferably between 0.01 and 0.2 and the mass fraction of particulate stabilizer, expressed relative to dispersed phase B ranges between 0.001 and 0.5. These emulsions are useful for manuf. of films. A typical emulsion was manufd. by mixing 6 g 10% soln. of polyoxyethylene-polybutadiene block copolymer (mol. wt. 10,000) (particulate stabilizer and copolymer dispersant) and in methylcyclohexane (I) with 100 g 20% Kraton G 1652 (hydrogenated triblock SBR) soln. in I, and homogenization of resulting mixt. with 12 g 30% Bardac (didecyldimethylammonium chloride) soln. in PEG (mol. wt. 400).

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 30 OF 58 HCPLUS COPYRIGHT 2003 ACS
 AN 1999:529199 HCPLUS
 DN 131:158375
 TI Integrated additive compositions containing antiblocking agents and other additives with good free-flowing properties
 IN Luers, Georg; Schmidt, Andreas
 PA Grace G.m.b.H., Germany
 SO PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9941308	A1	19990819	WO 1999-EP659	19990203
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	DE 19805358	A1	19990819	DE 1998-19805358	19980212
	ZA 9900598	A	19990727	ZA 1999-598	19990127
	AU 9931397	A1	19990830	AU 1999-31397	19990203
	BR 9907850	A	20001024	BR 1999-7850	19990203
	EP 1054926	A1	20001129	EP 1999-913137	19990203
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002503742	T2	20020205	JP 2000-531497	19990203

US 6294505 B1 20010925 US 2000-622102 20000810
 PRAI DE 1998-19805358 A 19980212
 WO 1999-EP659 W 19990203
 AB Additive compn., useful in polyolefin films and in injection molding, contains an anti-blocking agent and a org. component localized in the pores of the antiblocking agent, wherein the vol. of the org. component is not greater than the pore vol. of the antiblocking agent. Thus, 70 parts Sylobloc 45 (silica gel) having specific pore vol. 0.95 mL/g and particle size 4.9 .mu.m was mixed with 30 parts Crodamide ER (fatty acid amide) at 860 rpm for 12 min, then stirred for 20 min at 100 rpm in a cooling mixer, extruded with LLDPE to strands contg. no bubbles.
 IT 9002-88-4, **Polyethylene 9003-07-0, Polypropylene**
 RL: MOA (Modifier or additive use); USES (Uses) (waxes, process auxiliaries; integrated additive compns. contg. antiblocking agents and other additives with good free-flowing properties for)
 RN 9002-88-4 HCAPLUS
 CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1
CMF C2 H4

RN 9003-07-0 HCAPLUS
 CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1
CMF C3 H6

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 31 OF 58 HCAPLUS COPYRIGHT 2003 ACS
 AN 1999:801417 HCAPLUS
 DN 132:36723
 TI Antistaining multilayer resin extrusion moldings with rough surfaces
 IN Fukushima, Hideo; Kashima, Hiroto; Niimi, Kenichi; Ochiai, Shinya; Ohnata, Noe
 PA Toppan Printing Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE
 PI JP 11348088 A2 19991221 JP 1998-162633 19980610
 PRAI JP 1998-162633 19980610

AB The extrusion moldings have fine rough surface layers formed by surging applied during extruding the surface layer resins to increase surface areas. Antimicrobial agents may be added in the surface layers. Stains, esp. of molds and microorganisms, can be removed from the moldings easily. Thus, polyethylene as the outer and the inner layers were blow-molded to give a bottle. Extrusion temp. ad shear stress of dies for the outer layer were 200.degree. and 3.0 .times. 106 dyne/cm², resp. The bottle had contact angle with water 125.degree. and stains of microorganisms could be easily washed off by water.

IT 9002-88-4, Polyethylene 25038-59-9,
Polyethylene terephthalate, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(antistaining multilayer resin extrusion moldings with rough surfaces)

RN 9002-88-4 HCAPLUS

CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

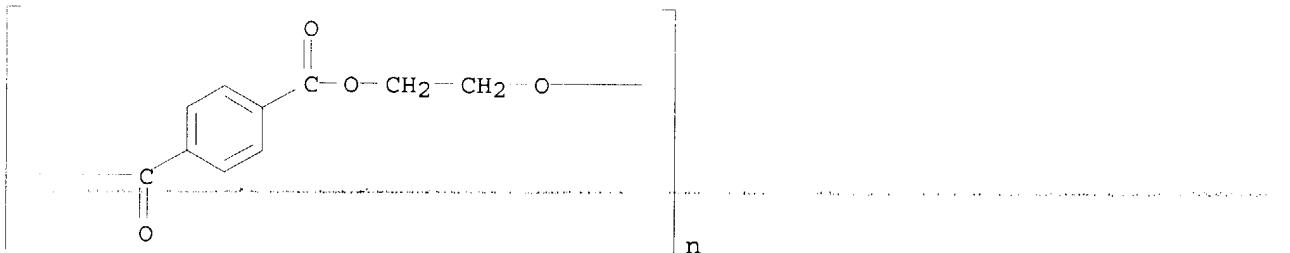
CRN 74-85-1

CMF C2 H4

$\text{H}_2\text{C}=\text{CH}_2$

RN 25038-59-9 HCAPLUS

CN Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylene carbonyl) (9CI) (CA INDEX NAME)



L38 ANSWER 32 OF 58 HCAPLUS COPYRIGHT 2003 ACS

AN 1999:406873 HCAPLUS

DN 131:59791

TI Antifungal and flexible polymer sheets with improved durability

IN Murayama, Hiroshi; Miyake, Toshiyuki

PA Sekisui Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11170451	A2	19990629	JP 1997-346612	19971216
PRAI	JP 1997-346612		19971216		
AB	The sheets, useful for electronic signboards, etc., are composite sheets having 1.5- to 15-.mu.m-thick antifungal layers comprising (co)polymers (d.p. 50-200) of [p-CH ₂ :CHC ₆ H ₄ CH ₂ P+Me ₂ (CH ₂) _n Me]Cl- (n = 9, 13, 17) or				

[CH₂:CMeCO₂(CH₂)_mP+R₁R₂R₃]X- (R₁₋₃ = C₁₋₁₈ alkyl; m = 1-4; X- = halide ion such as Cl- and Br- or monovalent anion such as tetrafluoroborate) on one side. Thus, a composite sheet [prepd. from glass fiber net and an organosol contg. Sumilite PX-N (PVC) 100, PN 250 (plasticizer) 30, ADK Stab LA 32 (I; benzotriazole UV absorber) 1, Mark AC 167 (heat stabilizer) 1, TiO₂ 20, and xylene 100 parts] was applied with an antifungal agent contg. an antifungal polymer (prepd. by polymn. of dimethyldecyl-4-vinylbenzylphosphonium chloride) 10, Polymert NK 350 (undercoat) 100, and I 5 parts and dried to give a sheet showing good flexibility and antifungal property, which was press-bonded with Tackpaint TP03 (marking film) to give a test piece showing adhesion strength 1460 g/25 mm (initial) and 1500 g/25 mm (after 4 days at 60.degree.).

IT 9002-86-2, Sumilite PX-N

RL: BUU (Biological use, unclassified); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(antifungal and flexible polymer sheets for illuminating signboards)

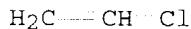
RN 9002-86-2 HCPLUS

CN Ethene, chloro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 75-01-4

CMF C2 H3 Cl



L38 ANSWER 33 OF 58 HCPLUS COPYRIGHT 2003 ACS
AN 1999:101124 HCPLUS

DN 130:197591

TI Antibacterial white polyester films or laminated films having good water resistance and writability

IN Takekawa, Yoshinori; Ohashi, Hideto; Hayakawa, Satoshi; Ohase, Shigeji

PA Toyobo Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

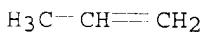
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11035718	A2	19990209	JP 1997-209888	19970717
PRAI	JP 1997-209888		19970717		

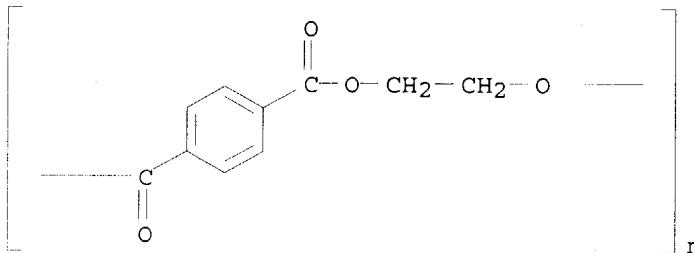
AB Title films contain inorg. and/or org. antibacterial agents and hydrophilic substances and have apparent d. 0.5-1.3 g/cm³. The laminated films comprise surface layers, contg. inorg. and/or org. antibacterial agents and hydrophilic substances, on white polyester films having apparent d. 0.5-1.3 g/cm³. Thus, di-Me terephthalate 9, di-Me 5-sulfoisophthalate tributylhexadecylphosphonium salt 1, and ethylene glycol 22 mol were reacted in the presence of zinc acetate, 0.12 mol polyethylene glycol, antimony oxide, trimethylphosphate, silica were added to give a polyester, 100 parts of which was mixed with 20 parts polystyrene, extruded at 290.degree., and biaxially oriented to give a 75 .mu.m-thick polyester film having a lot of pores, apparent d. 1.10 g/cm³, light transmittance 25%, and good antibacterial property against S. aureus.

IT 9003-07-0, Polypropylene
 RL: MOA (Modifier or additive use); USES (Uses)
 (prepn. of **antibacterial** white polyester **films**
 having good water resistance and writability)
 RN 9003-07-0 HCPLUS
 CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1
 CMF C3 H6

IT 25038-59-9, Poly(ethylene terephthalate), uses
 RL: POF (Polymer in formulation); TEM (Technical or engineered material
 use); USES (Uses)
 (prepn. of **antibacterial** white polyester **films**
 having good water resistance and writability)
 RN 25038-59-9 HCPLUS
 CN Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylene carbonyl) (9CI) (CA INDEX
 NAME)



L38 ANSWER 34 OF 58 HCPLUS COPYRIGHT 2003 ACS

AN 1999:48408 HCPLUS
 DN 130:125851

TI **Antibacterial** resin compositions having good durability
 IN Ohashi, Hideto; Takekawa, Yoshinori; Hayakawa, Satoshi; Kobase, Shigeji
 PA Toyobo Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11012479	A2	19990119	JP 1997-180634	19970619
PRAI	JP 1997-180634		19970619		

AB Title compns. comprise inorg. antibacterial agents, org. antibacterial agents, and hydrophilic substances, wherein the org. antibacterial agents and the hydrophilic substances are covalently bonded. Thus, di-Me terephthalate 4.5, di-Me isophthalate 4.5, di-Me 5-sulfoisophthalate tributyldecylphosphonium salt (org. antibacterial agent) 1, ethylene glycol 22, and polyethylene glycol (hydrophilic substance) 1.1 mol were reacted in the presence of zinc acetate, antimony oxide, and

trimethylphosphate to give a polyester, 2% MEK soln. of which was mixed with 1 part silver/zirconium phosphate-type antibacterial filler (Novaron) and coated on a polyester film giving good antibacterial effect against S. Aureus and E. Coli.

IT 9002-86-2, Poly(vinyl chloride)

RL: TEM (Technical or engineered material use); USES (Uses)
(antibacterial resin compns. having good durability laminated with)

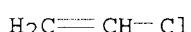
RN 9002-86-2 HCPLUS

CN Ethene, chloro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 75-01-4

CMF C2 H3 Cl



L38 ANSWER 35 OF 58 HCPLUS COPYRIGHT 2003 ACS

AN 1999:133275 HCPLUS

DN 130:210979

TI Wiping paper with good balance of dissolvability in water and wet service strength and its wrapped products

IN Fukuda, Shoji; Takahashi, Mitsugu; Yuyama, Masahiro; Oka, Naoyuki

PA Fukuyo K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11047026	A2	19990223	JP 1997-238810	19970730
PRAI	JP 1997-238810		19970730		

AB The paper useful as wet tissue, towel and nonwoven web for household and medical cleaning uses, is obtained from water-dissolvable fiber sheet which has been interlaced by a water jet and then impregnated with a liq. cleaning soln. contg. 0.001-2% antibacterial agent. The paper is wrapped in a soft packaging material, e.g., film, which has good moisture-barrier property and is resistance to heat sterilization. The paper can be impregnated with other medicinal ingredients, e.g., antiinflammatory agents, antihistamine, local anesthesia agents, hemostatic agents, vitamins, etc.

IT 9003-07-0D, Polypropylene, chlorinated

25038-59-9, PET polyester, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(laminated-film packaging materials; for manuf. of wet wiping paper with good balance of dissolvability in water and wet service strength and wrapped products)

RN 9003-07-0 HCPLUS

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

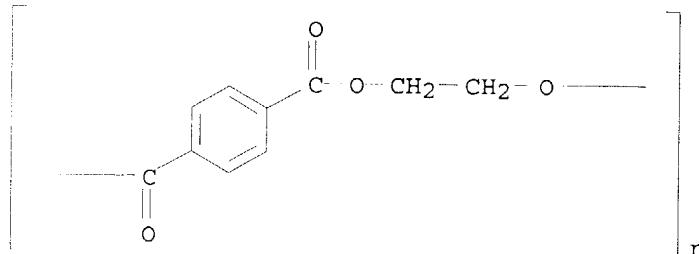
CM 1

CRN 115-07-1

CMF C3 H6



RN 25038-59-9 HCPLUS
 CN Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylenecarbonyl) (9CI) (CA INDEX
 NAME)



L38 ANSWER 36 OF 58 HCPLUS COPYRIGHT 2003 ACS
 AN 1998:614417 HCPLUS
 DN 129:303532
 TI **Antimicrobial** polyester materials and laminates therefrom
 IN Oohashi, Hideto; Kobase, Shigeji; Seko, Masahiro; Tanaka, Masakazu
 PA Toyobo Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 10251495	A2	19980922	JP 1997-63004	19970317
PRAI JP 1997-63004		19970317		

AB Title polyesters contain polyalkylene glycol and phosphonium salt groups of difunctional arom. compds. X1A(SO₃-P+R1R2R3R4)X2 (A = arom. groups; X1, X2 = ester-forming functional groups; R1-4 = alkyl; .gtreq.1 group selected from R1-4 is C₁₀-20 alkyl) and are derived from (a) acid components mainly comprising .gtreq.1 dicarboxylic acid selected from terephthalic acid, isophthalic acid, and 2,6-naphthalenedicarboxylic acid or their ester-forming derivs. and (b) glycol components mainly comprising .gtreq.1 glycol selected from ethylene glycol, propylene glycol, butanediol, neopentyl glycol, and 1,4-cyclohexanediethanol. Thus, a polyester derived from an acid component comprising di-Me terephthalate 47.5, di-Me isophthalate 47.5, and di-Me 5-sulfoisophthalate tributylhexadecylphosphonium salt 5 mol% and a glycol component comprising 98.9 mol% ethylene glycol and 1.1 mol% polyethylene glycol was applied to one side of a polyester film and dried to give a film showing antimicrobial activity against S. aureus from 3.6 .times. 10⁶ to <200 after 24-h incubation at 37.degree..

L38 ANSWER 37 OF 58 HCPLUS COPYRIGHT 2003 ACS
 AN 1998:135894 HCPLUS
 DN 128:248639
 TI **Antimicrobial** antithrombogenic medical materials
 IN Funayama, Masashi
 PA Funayama, Masashi, Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10057472	A2	19980303	JP 1996-260092	19960825
PRAI	JP 1996-260092		19960825		
AB	The materials, useful for artificial organs, syringes, catheters, etc., contain antithrombotic bioactive substances, quaternary phosphonium compds., surfactants, and polymers. A THF soln. contg. polyether-urethane, heparin-lipid conjugate, oleic acid stearic acid monoglyceride, tributylcetylphosphonium chloride was cast into a film. The film was incubated with fresh human plasma at 37.degree. for 30 days while replacing the plasma with fresh one every day. The film showed sufficient antimicrobial activity against <i>Staphylococcus aureus</i> , <i>Pseudomonas aeruginosa</i> , and pathogenic Candida.				
IT	9002-86-2, Poly(vinyl chloride) 9002-88-4, Polyethylene RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (antimicrobial antithrombogenic medical materials contg. antithrombotics , quaternary phosphonium compds. , surfactants, and polymers)				
RN	9002-86-2 HCPLUS				
CN	Ethene, chloro-, homopolymer (9CI) (CA INDEX NAME)				

CM 1

CRN 75-01-4
CMF C2 H3 Cl $\text{H}_2\text{C}=\text{CH}-\text{Cl}$ RN 9002-88-4 HCPLUS
CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1
CMF C2 H4 $\text{H}_2\text{C}=\text{CH}_2$

L38 ANSWER 38 OF 58 HCPLUS COPYRIGHT 2003 ACS
 AN 1998:59439 HCPLUS
 DN 128:116085
 TI **Antimicrobial films** containing phosphonium group-containing polymers and hydrophilic substances
 IN Ohase, Shigeji; Ohashi, Hideto; Hamano, Akito; Seko, Masahiro; Tanaka, Masakazu
 PA Toyobo Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10017663	A2	19980120	JP 1996-177795	19960708
PRAI	JP 1996-177795		19960708		
AB	Title films are claimed. A biaxially oriented film contg. 97 parts di-Me 5-sulfoisophthalate tributylhexadecylphosphonium salt-di-Me terephthalate-ethylene glycol copolymer (.eta. = 0.55) and 3 parts polyethylene glycol (mol. wt. 10,000) showed good antibacterial activity against Escherichia coli.				

L38 ANSWER 39 OF 58 HCAPLUS COPYRIGHT 2003 ACS

AN 1998:668083 HCAPLUS

DN 129:293874

TI Pharmaceutical compositions containing flavonoids for the control and treatment of anorectal and colonic diseases

IN Singh, Amarjit; Jain, Rajesh; Singla, Anil Kumar

PA Panacea Biotec Ltd., India; University Institute of Pharmaceutical Sciences

SO Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 868914	A1	19981007	EP 1997-302242	19970401
	EP 868914	B1	20021218		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	EP 1997-302242		19970401		
AB	A pharmaceutical compn., and process for the manuf. thereof, comprising one or more flavonoids obtained from the plant Euphorbia prostata useful in the control and treatment of anorectal and colonic diseases. Standardized ext. of E. prostata, when administered orally showed an inhibition of both carrageenan-induce edema with ED50 value of 5.98 mg/kg and histamine-induced edema with ED50 value of 16.37 mg/kg. A capsule contained above ext. 15, lactose 250, colloidal silicone dioxide 10, and talc 25 mg.				

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 40 OF 58 USPATFULL

AN 97:117705 USPATFULL

TI Burn treatment composition

IN Staats, Victor J., Miami Beach, FL, United States

PA International Laboratory Technology Corp., Miami Beach, FL, United States (U.S. corporation)

PI US 5698207 19971216

AI US 1995-507763 19950726 (8)

DT Utility

FS Granted

EXNAM Primary Examiner: MacMillan, Keith

LREP Downey, P.A., Robert M.

CLMN Number of Claims: 7

ECL Exemplary Claim: 7

DRWN No Drawings

LN.CNT 213

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An antimicrobial composition for application to exposed wounds

such as burns and ulcers includes a **quaternary ammonium compound** blend, a stabilizer, a nonylphenol **polyethylene glycol ether**, a hydrophilic polymer, sodium lithium **magnesium silicate**, a hydrophobic waterproofing agent, aluminum sulfate, triethanolamine and water.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L38 ANSWER 41 OF 58 USPATFULL
AN 97:107140 USPATFULL
TI Thin **film** hydrophilic coatings
IN Stoy, Vladimir A., Princeton, NJ, United States
Gontarz, Jr., Gerald A., Helmetta, NJ, United States
Stoy, Patrick, Princeton, NJ, United States
PA S.K.Y. Polymers, Inc., Rocky Hill, NJ, United States (U.S. corporation)
PI US 5688855 19971118
AI US 1995-434573 19950501 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: Szekely, Peter A.
LREP Glynn, Kenneth P.
CLMN Number of Claims: 18
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 847

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A hydrophilic coating composition used to impart increased lubricity and wettability to the surface of a hydrophobic substrate which is comprised of three essential components:

- 1) Hydrogel-forming polymer component A
- 2) Water-soluble polymer component B
- 3) Common solvent C for the components A and B

The water-insoluble, hydrogel-forming component A consists of a segmented copolymer with long, hydrophilic terminal blocks and the essentially hydrophobic central section. The two polymer components A and B have a limited miscibility in the absence of a common solvent C. Therefore, their blend tends to separate spontaneously into two polymer phases. The phase separation takes place during the solvent evaporation or extraction. A gradient of hydrophilicity and swelling within the coating layer is thus spontaneously created achieving a good adhesion to the substrate and high surface hydrophilicity at the same time.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

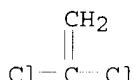
L38 ANSWER 42 OF 58 HCPLUS COPYRIGHT 2003 ACS
AN 1997:509237 HCPLUS
DN 127:162610
TI **Antibacterial** polymer compositions with good durability and safety
IN Tanaka, Masakazu; Seko, Masahiro; Yokota, Hideyuki; Kohase, Juji
PA Toyobo Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09194629	A2	19970729	JP 1996-5428	19960117
PRAI JP 1996-5428		19960117		
OS MARPAT 127:162610				
AB Title compns. comprise synthetic polymers and phosphonium salts in the free state, which are useful for food-packaging films, medical goods, sanitary goods, etc. Thus, PVC 100, DOP 60, epoxidized soybean oil 5, a complex (prepd. from dioctyl 5-sodiosulfoisophthalate and tributyltetradecylphosphonium chloride) 2, Zn stearate 1, and Ca stearate 0.5 part were mixed and roll-kneaded to give a compn., which gave a film with good antibacterial activity, durability, and safety.				
IT 9002-85-1, Poly(vinylidene chloride) 9002-86-2, PVC 9002-88-4, Polyethylene 9003-07-0, Polypropylene				
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); FFD (Food or feed use); POF (Polymer in formulation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)				
(phosphonium salt compd.-contg.				
antibacterial polymer compns. with good durability and safety)				
RN 9002-85-1 HCPLUS				
CN Ethene, 1,1-dichloro-, homopolymer (9CI) (CA INDEX NAME)				

CM 1

CRN 75-35-4

CMF C2 H2 Cl2



RN 9002-86-2 HCPLUS

CN Ethene, chloro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 75-01-4

CMF C2 H3 Cl



RN 9002-88-4 HCPLUS

CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1

CMF C2 H4



RN 9003-07-0 HCPLUS

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6

L38 ANSWER 43 OF 58 HCAPLUS COPYRIGHT 2003 ACS
AN 1995:604311 HCAPLUS

DN 123:201389

TI **Bactericidal acrylic resin films**

IN Tayama, Suehiro; Hatakeyama, Hiroki; Nakagawa, Kazuhiko

PA Mitsubishi Rayon Co, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07068656	A2	19950314	JP 1993-237236	19930831
PRAI	JP 1993-237236		19930831		

AB The title films contain 100 parts acrylic resins and 0.1-40 parts bactericides based on quaternary ammonium salt-adsorption-immobilized phosphate salts. Bactericidal and stainproof wallpapers comprise supports laminated with the films showing improved weatherability. Thus, 100 parts Hipet HBS 001 (acrylic resin) contg. 1 part Rasap QC 2500S (bactericide) was pelletized at 240.degree. and extruded to give a film, which was laminated with a PVC supporting paper to give a wallpaper showing good bactericidal effect.

IT 9002-86-2, PVC

RL: MSC (Miscellaneous)

(supports; acrylic resin films contg. **bactericides** based on **quaternary ammonium salt**

-immobilized phosphate salts for polymer-supported wallpapers)

RN 9002-86-2 HCAPLUS

CN Ethene, chloro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 75-01-4

CMF C2 H3 Cl



L38 ANSWER 44 OF 58 HCAPLUS COPYRIGHT 2003 ACS

AN 1995:441318 HCAPLUS

DN 122:197080

TI Delayed-release disinfectants in a metal oxide matrix

IN Boettcher, Horst; Kallies, Karl Heinz; Roth, Christoph

PA Germany

SO Ger. Offen., 8 pp.

CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4329279	A1	19950302	DE 1993-4329279	19930831
	DE 4329279	C2	19960530		
PRAI	DE 1993-4329279		19930831		
AB	Delayed release of antimicrobial substances is achieved by incorporating them in a diffusion-inhibiting metal oxide matrix, e.g. by the sol-gel method or coevapn. Such compns. are useful in food preservation or disinfection of objects. The compns. show improved long-term availability of the antimicrobial agent and decreased contamination of contacted objects with the active agent or carrier materials. Thus, a soln. of Si(OEt) ₄ 1, BzOH 7, and HCO ₂ Na (penetration enhancer) 7 g in 10 mL alc. or aq. alc. was spread on a sheet of cellulose acetate; the treated film strongly inhibited growth of Escherichia coli.				
IT	9002-88-4, Polyethylene RL: TEM (Technical or engineered material use); USES (Uses) (film; delayed-release disinfectants in metal oxide matrix)				
RN	9002-88-4 HCAPLUS				
CN	Ethene, homopolymer (9CI) (CA INDEX NAME)				

CM 1

CRN 74-85-1
 CMF C2 H4

H2C=CH2

L38 ANSWER 45 OF 58 USPATFULL
 AN 94:79813 USPATFULL
 TI Treatment for nylon and other textiles
 IN Targosz, Eugene F., 1717 E. Union Hills Dr., Phoenix, AZ, United States
 85024

DUPLICATE 2

PI US 5346725 19940913
 AI US 1993-108329 19930818 (8)
 DT Utility
 FS Granted

EXNAM Primary Examiner: Lusignan, Michael
 LREP Tolpin, Thomas W.

CLMN Number of Claims: 14

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 619

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Running and tearing of nylon hosiery and other hydrophobic fabrics are prevented by immersing the hosiery and fabrics in a special aqueous treatment comprising a film-forming polymeric solution, a wetting agent, a substantive quaternary compound and fabric softener to encourage attachment to the substrate, and an elasticity enhancing plasticizer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 9002-88-4, Polyethylene
 (fiber; process for enhancing the performance and wearing quality of)

RN 9002-88-4 USPATFULL
 CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1
 CMF C2-H4



L38 ANSWER 46 OF 58 USPATFULL
 AN 94:95457 USPATFULL
 TI Cellulose acetoacetates
 IN Edgar, Kevin J., Kingsport, TN, United States
 Blount, Jr., William W., Kingsport, TN, United States
 PA Eastman Chemical Company, Kingsport, TN, United States (U.S.
 corporation)
 PI US 5360843 19941101
 AI US 1993-160989 19931202 (8)
 RLI Division of Ser. No. US 1993-109205, filed on 19 Aug 1993, now patented,
 Pat. No. US 5292877 which is a continuation of Ser. No. US 1991-742821,
 filed on 9 Aug 1991, now abandoned

DT Utility
 FS Granted

EXNAM Primary Examiner: Nutter, Nathan M.
 LREP Boshears, Betty J., Gwinnett, Harry J.
 CLMN Number of Claims: 18
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 761

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Water soluble cellulose acetoacetates prepared by contacting a cellulose
 material with diketene, an alkyl acetoacetate, 2,2,6-trimethyl-4H-1,3-
 dioxin-4-one or a mixture thereof in a solvent system comprising lithium
 chloride plus a carboxamide. Compositions containing the cellulose
 acetoacetates and, optionally, a crosslinking agent are useful for
 coatings applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L38 ANSWER 47 OF 58 USPATFULL
 AN 94:90632 USPATFULL
 TI Controlled release coatings derived from aqueous dispersions of zein
 IN Oshlack, Benjamin, New York, NY, United States
 McGinity, James, Austin, TX, United States
 Chasin, Mark, Manalapan, NJ, United States
 Bodmeier, Roland, Austin, TX, United States
 PA Euroceltique S.A., Luxembourg, Luxembourg (non-U.S. corporation)
 PI US 5356467 19941018
 AI US 1993-103887 19930806 (8)
 RLI Continuation-in-part of Ser. No. US 1992-930107, filed on 13 Aug 1992
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Brunsman, David
 LREP Steinberg, Raskin & Davidson
 CLMN Number of Claims: 34
 ECL Exemplary Claim: 1,15,22

DRWN 8 Drawing Figure(s); 8 Drawing Page(s)

LN.CNT 1292

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Stable aqueous dispersions of zein which may be used as controlled release coatings of pharmaceutical, animal, health, or food products in an inorganic solvent-free environment are disclosed, as well as methods for preparing the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L38 ANSWER 48 OF 58 HCPLUS COPYRIGHT 2003 ACS
 AN 1993:498018 HCPLUS

DN 119:98018

TI Antibacterial polymer materials and their manufacture
 IN Kanazawa, Akihiko; Endo, Takeshi; Ikeda, Tomiki

PA Nippon Chemical Ind, Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05058825	A2	19930309	JP 1991-244314	19910830
	JP 3085478	B2	20000911		

PRAI JP 1991-244314 19910830

AB Antibacterial polymer materials coated with $[CH_2CH(C_6H_4CH_2P+R_1R_2R_3)]_n X^-$ [$R_1-R_3 = H, OH, C_1-18$ linear or branched ($OH-$ or alkoxy-substituted) alkyl, aryl, aralkyl; X^- = anion; $n \geq 2$], useful for air filters, bioreactors, etc., are prep'd. by (i) coating compns. contg. $CH_2:CHC_6H_4CH_2P+R_1R_2R_3 X^-$, photosensitizers, and solvents on polymer bases and irradn. for graft polymn. or (ii) coating compns. contg. (halomethyl)styrenes, photosensitizers, and solvents on polymer bases, irradn., and conversion of the functional groups into phosphonium salts. Acetone soln. contg. (chloromethyl)styrene and Bz2O2 was coated on polypropylene film, irradiated with high-pressure Hg lamp for 10 h, and refluxed with Bu3P in hexane for 12 h to give film, which showed good antibacterial effect on *Staphylococcus aureus* and *Escherichia coli*.

IT 9002-88-4, Polyethylene 9003-07-0,

Polypropylene

RL: USES (Uses)

(film, coatings for, phosphonium-substituted polystyrenes as, antibacterial)

RN 9002-88-4 HCPLUS

CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1

CMF C2 H4

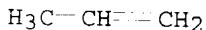
 H_2C-CH_2

RN 9003-07-0 HCPLUS

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1
 CMF C3 H6



L38 ANSWER 49 OF 58 HCPLUS COPYRIGHT 2003 ACS
 AN 1993:455922 HCPLUS
 DN 119:55922
 TI Polymeric **phosphonium salts** as a novel class of cationic biocides. III. Immobilization of **phosphonium salts** by surface photografting and **antibacterial** activity of the surface-treated polymer films
 AU Kanazawa, Akihiko; Ikeda, Tomiki; Endo, Takeshi
 CS Res. Lab. Resour. Util., Tokyo Inst. Technol., Yokohama, 227, Japan
 SO Journal of Polymer Science, Part A: Polymer Chemistry (1993), 31(6), 1467-72
 CODEN: JPACEC; ISSN: 0887-624X
 DT Journal
 LA English
 AB Immobilized polycationic biocides with phosphonium salt on the surface of poly(propylene) film were prep'd. by surface photografting and surface antibacterial activity of the resulting films against *Staphylococcus aureus* and *Escherichia coli* was explored by the viable cell counting method. These films with phosphonium salts were found to exhibit high antibacterial activity against *S. aureus* and *E. coli*, particularly against *E. coli*. Furthermore, morphol. changes of the cells of *S. aureus* and *E. coli* in contact with the immobilized phosphonium salt were estd. by SEM. The immobilized biocides exhibited surface bactericidal activity against both strains as evidenced by shrunken and deformed cells of these species in contact with the immobilized biocides.

L38 ANSWER 50 OF 58 USPATFULL
 AN 92:14730 USPATFULL
 TI Method of making a dry **antimicrobial** fabric
 IN Sheridan, Christopher H., Cresskill, NJ, United States
 PA Nordico, Inc., New York, NY, United States (U.S. corporation)
 PI US 5091102 19920225
 AI US 1990-563561 19900803 (7)
 DCD 20070807
 RLI Continuation-in-part of Ser. No. US 1988-271320, filed on 15 Nov 1988, now patented, Pat. No. US 4946617

DT Utility
 FS Granted
 EXNAM Primary Examiner: Lieberman, Paul; Assistant Examiner: Beadles-Hay, A.
 LREP Rosen, Dainow & Jacobs
 CLMN Number of Claims: 58
 ECL Exemplary Claim: 1,53
 DRWN No Drawings
 LN.CNT 1389

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

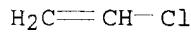
AB A method for making a substantially flexible dry matrix and the result and article capable of cleaning a surface by removing dust and/or organic **film** and rendering the surface substantially static-free, suitable for use as a garment, air filter or mat, comprising a matrix comprising natural or synthetic, woven, non-woven or knitted fibers, or a flexible foam material, said matrix having been uniformly coated with an amount of treatment solution sufficient to

allow said matrix to retain its substantially dry characteristics, said solution comprising between about 25% and 75% of at least one glycol compound, between about 0.2% and 60% of a cationic surfactant, an **antimicrobial** compound and optionally up to about 45% of a nonionic surfactant may be added to the treatment solution. When removing organic film, the wipe is contacted with water and used to wash the surface, and can then be rung out and used to wipe the surface dry.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L38 ANSWER 51 OF 58 HCAPLUS COPYRIGHT 2003 ACS
 AN 1990:240577 HCAPLUS
 DN 112:240577
 TI Medical devices having germicidal and antithrombogenic properties
 IN Lee, Clarence C.
 PA Bard, C. R., Inc., USA
 SO U.S., 4 pp. Cont. of U.S. Ser. No. 889,251, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4895566	A	19900123	US 1988-208868	19880615
PRAI	US 1986-889251		19860725		
AB	A medical device having long-lasting bactericidal properties comprises, (1) a substrate, (2) a carrier, preferably heparin, ionically bound to the substrate via anchor mols. (e.g. tridodecyl Me ammonium chloride and benzalkonium chloride), and (3) cationic antibiotics ionically bound to the carrier. Once implanted, the cationic antibiotic is slowly released from the heparin by dissocn. and the heparin with antithrombogenic activity is exposed. A medical grade latex tubing (10 mm-long) was soaked in 50 mL of a 2 tridodecyl Me ammonium chloride-heparin soln. for 5 s, dried, rinsed with distd. water, and then soaked in 20 mL of 0.2 gentamicin sulfate soln. for 5 min. The tubing was dipped into a saline suspension of Escherichia coli (1 .times. 106 colony-forming units/mL) for 5 s, incubated on a nutrient agar plate; there was no bacterial growth on and around the tubing, whereas there was heavy growth around the control tubing.				
IT	9002-86-2DP, PVC, reaction products with heparin and tetracycline 9002-88-4DP, Polyethylene, reaction products with heparin and polymyxin B RL: PREP (Preparation) (prepn. of, for antithrombogenic and bactericidal medical film manuf.)				
RN	9002-86-2 HCAPLUS				
CN	Ethene, chloro-, homopolymer (9CI) (CA INDEX NAME)				
CM	1				
CRN	75-01-4				
CMF	C2 H3 Cl				



RN 9002-88-4 HCAPLUS
 CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1
CMF C2 H4 $\text{H}_2\text{C}=\text{CH}_2$ L38 ANSWER 52 OF 58 HCAPLUS COPYRIGHT 2003 ACS
AN 1990:547245 HCAPLUS

DN 113:147245

TI Preparation of deodorant microboidal polymers
IN Nakao, Katsuaki; Ishido, Kazutaka; Sato, Koji
PA Ipposha Oil Industries Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02067210	A2	19900307	JP 1988-219478	19880831
PRAI	JP 1988-219478		19880831		

AB The title polymer is made by reacting a cationized polymer with an anionic or amphoteric deodorant microbicide. The polymer can be fiber, plastic, or natural polymer from wood, such as cotton and paper, as well as poly(vinyl alc.), etc. Cationizing agents can be quaternary ammonium compds., such as $[\text{Q}_1\text{NR}_1\text{R}_2\text{ANR}_3\text{R}_4\text{Q}_2]^{(2+n)+}$, $(2+n)\text{X}^-$ or $(\text{CH}_2)_p[\text{Q}_3\text{NR}_5(\text{CH}_2)_q]_n$ [$\text{A} = \text{OH}$ -substituted C1-8 alkylene; p, q = 1-8; n = 0-2; R1-5 = C1-4 alkyl, OH- or cyano-substituted C1-4 alkyl, C1-4 alkenyl; Q1, Q2, Q3 = $\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{Y}$ or epoxypropylene; X, Y = halo]. PVC film (50 μm thick) was immersed in a dimethylaminoethyl acrylate-Bu methacrylate-N-methylolacrylamide copolymer (mol ratio 4:1:0.2 and av. mol. wt. 50,000) for 20 min. and then dried. The film was dipped in a 5% Myosalvarsan aq. soln. for 1 h and dried for tests on *Staphylococcus aureus* to show 90% kill.

IT 9002-86-2, Poly(vinylchloride)

RL: BIOL (Biological study)
(cationized with quaternary ammonium compds
, for prep. of deodorant microboidal films)

RN 9002-86-2 HCAPLUS

CN Ethene, chloro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 75-01-4
CMF C2 H3 Cl $\text{H}_2\text{C}=\text{CH}-\text{Cl}$

L38 ANSWER 53 OF 58 USPATFULL

AN 89:75155 USPATFULL

TI Disposable hygienic shoe insole and method for making the same
IN Oakley, Barbara A., Menasha, WI, United States

PA Kimberly-Clark Corporation, Neenah, WI, United States (U.S. corporation)
 PI US 4864740 19890912
 AI US 1986-945411 19861222 (6)
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Meyers, Steven N.
 LREP Chiatalas, John L.
 CLMN Number of Claims: 42
 ECL Exemplary Claim: 1
 DRWN 3 Drawing Figure(s); 1 Drawing Page(s)
 LN.CNT 382
 AB A disposable hygienic shoe insole comprises three layers; a top layer of a spunbonded polypropylene material, a composite layer of pulp fibers and polypropylene fibers meltblown onto the top layer, and a bottom layer of polyethylene vinyl acetate meltblown onto the composite layer. The layers, preferably the composite layer, can include antimicrobial agents, fragrance, or neutralizer or odor-absorbing agents. The top surface of the top layer is provided with good abrasion resistance, and the bottom surface of the bottom layer provides required friction to maintain the shoe insole in place during use.

L38 ANSWER 54 OF 58 HCAPLUS COPYRIGHT 2003 ACS

AN 1984:532660 HCAPLUS

DN 101:132660

TI Polyurethane quaternary ammonium salts

IN Gould, Francis E.; Johnston, Christian W.

PA Tyndale Plains-Hunter Ltd., USA

SO U.S., 8 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 4451635	A	19840529	US 1982-355938	19820308
PRAI US 1982-355938		19820308		

AB Water-sol polyurethane quaternary ammonium chlorides or sulfates contain backbone OH groups, carboxylate, and CO₂H groups. The salts are suitable for marine and light-sensitive coatings and for medicinal purposes. Thus, 69.18 mL MeOH soln. contg. 9.77% diethylene glycol-.delta.-gluconolactone-methylenebis(cyclohexyl 4,4'-isocyanate)-polyethylene glycol copolymer was refluxed with 2.13 g PhCl for 4 h. Then 0.818 g NaOH was added, and refluxing continued for 4 h. The resin was pptd. in water as a hydroxide. Sufficient HCl was added to form a chloride of the resin.

L38 ANSWER 55 OF 58 HCAPLUS COPYRIGHT 2003 ACS

AN 1982:533620 HCAPLUS

DN 97:133620

TI Polyamide films for the protection of wounds

PA Lion Corp., Japan

SO Jpn: Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 57112323	A2	19820713	JP 1980-188689	19801229

PRAI JP 1980-188689

19801229

AB Polyamide films contg. cationic bactericides, such as quaternary ammonium salts are effective barriers to bacterial infection of wounds. Thus, a medication for topical application was prep'd. from: cetylpyridinium chloride [123-03-5] 0.1, benzalkonium chloride 0.05, chlorhexidine gluconate [18472-51-0] 0.05, pyridoxine-HCl 1.0, dibucaine-HCl 0.1, naphazoline-HCl 0.1, chlorpheniramine maleate 0.2, polyamide resin 0.5, NaCl 1.0, and 60% EtOH to 100% by wt. When this soln. was applied to a wound, the film formed adhered to the skin firmly and prevented bacteria from entering.

L38 ANSWER 56 OF 58 HCAPLUS COPYRIGHT 2003 ACS

AN 1981:36401 HCAPLUS

DN 94:36401

TI Disinfectant solution

IN Bischoff, Edelbert; Fisch, Erich; Schmid, Karl Heinz

PA Werner und Mertz G.m.b.H., Fed. Rep. Ger.

SO Ger., 4 pp.

CODEN: GWXXAW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2916304	B1	19800724	DE 1979-2916304	19790423
PRAI	DE 1979-2916304		19790423		

AB A disinfectant for application to solid surfaces is prep'd. contg. a quaternary ammonium compd., a disinfecting surfactant, a film-forming water-insol. wax, addnl. disinfectants or fragrances, and as stabilizer against the sepn. of the wax emulsion, a carboxylic acid polyglycol ester. Thus, a mixt. contg. a 35% polyethylene [9002-88-4] emulsion 15%, a polyoxyethylene fatty alc. ether 5%, a 40% HCHO [50-00-0] soln. 10%, a 50% didecyldimethylammonium chloride [7173-51-5] soln. 20%, and a 20% soln. of a polyethylene glycol fatty acid ester (I) 10% was prep'd. It was dild. to 1-2% for use and was effective for >1 yr. When I was omitted, the emulsion sepd. and the disinfectant was active for only a few mo.

IT 9002-88-4

RL: BIOL (Biological study)
(disinfectant soln. contg.)

RN 9002-88-4 HCAPLUS

CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1

CMF C2 H4

H₂C---CH₂

L38 ANSWER 57 OF 58 USPATFULL

AN 79:38193 USPATFULL

TI Combined laundry finishing treatment agent **package** and method
IN Schwadtke, Karl, Leverkusen, Germany, Federal Republic of
Kunzel, Werner, Langenfeld, Germany, Federal Republic of
Weber, Rudolf, Dusseldorf, Germany, Federal Republic of
Puchta, Rolf, Haan, Germany, Federal Republic of

PA Cioc, Alexander, Dusseldorf, Germany, Federal Republic of
 Kik, Michael, Langenfeld, Germany, Federal Republic of
 Henkel Kommanditgesellschaft auf Aktien(Henkel KGaA), Dusseldorf,
 Germany, Federal Republic of (non-U.S. corporation)
 PI US 4167594 19790911
 AI US 1977-864460 19771227 (5)
 PRAI DE 1976-2658989 19761227
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Lawrence, Evan K.
 LREP Hammond & Littell
 CLMN Number of Claims: 22
 ECL Exemplary Claim: 1
 DRWN 2 Drawing Figure(s); 1 Drawing Page(s)
 LN.CNT 580

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A laundry finishing treatment article for use in a mechanical laundry drier to treat fabrics with a substance of the laundry finishing type and a laundry odorant, the article comprising a hollow bag of two-layer composite sheeting having a pillowlike form closed on all sides, the external layer of said two-layer composite sheeting being an open-celled absorbent layer containing an amount effective to treat said fabrics of the substance, which substance is substantially solid at room temperature and softened or liquefied at elevated drier temperatures to enable a transfer of the substance to the laundry during the drying thereof, and the internal layer of the two-layer composite sheeting being a plastic film substantially gas-impermeable at room temperature and gas-permeable to the odorant at elevated drier temperatures, the film enclosing an effective amount of the odorant; as well as the process for after-treating laundry in a drier in which the above laundry finishing treatment article is introduced into a drier together with moist laundry and allowed to act on the laundry during the drying process.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L38 ANSWER 58 OF 58 HCAPLUS COPYRIGHT 2003 ACS
 AN 1972:565681 HCAPLUS
 DN 77:165681
 TI Laminated plastics containing active material
 IN Bernstein, Bruce S.; Kapoor, Ramesh C.; Hyman, Seymour
 PA Herculite Protective Fabrics Corp.
 SO Ger. Offen., 40 pp. Addn. to Ger. Offen. 1,694,395.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2204911	A1	19720831	DE 1972-2204911	19720202
	DE 2204911	C2	19831222		
	US 3705938	A	19721212	US 1971-112053	19710202
	CA 992810	A1	19760713	CA 1972-132173	19720111
	IL 38547	A1	19750728	IL 1972-38547	19720112
	ES 399706	A1	19760416	ES 1972-399706	19720129
	GB 1376223	A	19741204	GB 1972-4642	19720201
	GB 1376224	A	19741204	GB 1974-18840	19720201
	NL 7201339	A	19720804	NL 1972-1339	19720202
	FR 2124372	A5	19720922	FR 1972-3421	19720202
	FR 2124372	B1	19760305		

BR 7200582	A0	19730925	BR 1972-582	19720202
ZA 7200664	A	19730926	ZA 1972-664	19720202
US 3857934	A	19741231	US 1972-255143	19720519
US 3864468	A	19750204	US 1972-255250	19720519
ES 427781	A1	19760801	ES 1974-427781	19740628
CA 995448	A2	19760824	CA 1975-227103	19750516
CA 1011191	A2	19770531	CA 1975-227102	19750516
US 4204018	A	19800520	US 1977-819538	19770726
US 4284444	A	19810818	US 1979-32593	19790423
PRAI US 1971-112053	A	19710202		
US 1966-593267	A2	19661110		
CA 1972-132173	A3	19720111		
US 1972-255144	A1	19720519		
US 1972-255282	A1	19720519		
US 1977-821045	A1	19770801		

AB A practically nonporous polymer is coated on .geq.1 side with a bactericide, a fungicide, or another biol. active material, an antistatic agent (e.g., Advastat 50), or a perfume which migrates through the nonporous polymer to activate the entire polymer. The bactericide or other active ingredient is applied in a polymer soln. or in another soln. which is then covered with a polymer layer. The biol. active material is Dowicide A, Metasol 57, Captan, Arquad S-50, HgCl₂, tetracycline HCl, Fungitrol 11, Pyronyl 101, or a similar material. The practically nonporous polymer is PVC [9002-86-2], nylon, poly(ethylene terephthalate), poly(vinyl fluoride) [24981-14-4], crepe rubber, polycarbonate, cotton fibers, a glass-reinforced polyester resin, etc. Thus, a 0.1 mm PVC film is coated on 1 side with an EtOAc soln. of an acrylic resin contg. 0.65% Dowicide A which migrates through the PVC film.

IT 9002-85-1 9002-86-2 9002-88-4

9003-07-0 25038-59-9, uses and miscellaneous

RL: USES (Uses)

(antistatic agents perfumes and pesticides for)

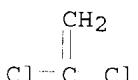
RN 9002-85-1 HCPLUS

CN Ethene, 1,1-dichloro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 75-35-4

CMF C2 H2 Cl2



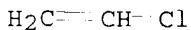
RN 9002-86-2 HCPLUS

CN Ethene, chloro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 75-01-4

CMF C2 H3 Cl



RN 9002-88-4 HCPLUS

CN Ethene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74-85-1
CMF C2 H4



RN 9003-07-0 HCPLUS
CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1
CMF C3 H6



RN 25038-59-9 HCPLUS
CN Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylene carbonyl) (9CI) (CA INDEX NAME)

